RATIONAL GEOGRAPHIC COMMON CORE PROGRAM







Meet the Artist

Joel Sotelo grew up in Tijuana, Mexico and began coming to the United States with his mother as a young child. He now lives in San Diego where he works as an artist and designer. Sotelo loves to travel and integrates elements of many countries and cultures into his art.

Acknowledgments

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Table of Contents Unit 7



Moving Through Space

? BIG QUESTION

What does it take to explore space?



READING SKILLS

Compare and Contrast Synthesize Draw Conclusions Explain Scientific Text
Explain Uses of Reasons
and Evidence
Draw Conclusions

Week 2

Building for Space Travel
by Anastasia Suen
NATIONAL GEOGRAPHIC EXCLUSIVE

Ask an Astronaut!
by Astronaut Jamal Holmer

Writing Project: Informational Essay

T453i

Plot Synthesize Form Generalizations Week 3

The Moon Over Star
by Dianna Hutts Aston; illustrated by Jerry Pinkney

Writing Project: Original Story

T4530

Realistic Fiction
T461

Comprehension Coach

T477a

Compare Points of View
Compare and Contrast
Accounts
Form Generalizations

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The Lunar Landing Firsthand and Secondhand Accounts accounts from Neil Armstrong, Walter Cronkite, and Edwin Aldrin	
Writing Project: Personal Narrative	T484

RESOURCES

Practice Masters PM7.1-PM7.39
Small Group Reading SG1-SG68

Assessment Masters A7.1-A7.46
Reteaching Masters RT7.1-RT7.16

Classroom Management

Whole Group Time

TEACHER

- Introduce Anthology
- Conduct Reading Lessons
- Teach Daily Language Arts
 - Daily Spelling & Word Work
 - Daily Grammar
 - Daily Writing Skills
- Differentiate Instruction
- Guide Writing Projects
- Assess Progress

STUDENT

- Read and Respond to Fiction and Nonfiction
- Build Content Knowledge
- Develop Reading Skills
- Engage in Language Arts Activities
- Collaborate on Writing Projects
- Complete Assessments

Small Group Reading Time

TEACHER

- Introduce Books
- Conduct Mini Lessons
- Monitor Small Group Reading
- Guide Discussion
- Assess Progress

STUDENT

- Read and Discuss Books
- Extend Content Knowledge
- Apply Reading Skills
- Connect and Compare Texts
- Demonstrate Comprehension

Learning Station Time

TEACHER

- Suggest Books for Independent Reading
- Introduce Learning Stations
- Meet with Small Groups or Individuals for Intervention, Reteaching, or Acceleration
- Guide and Redirect as Needed

STUDENT

- Read Independently
- Complete Learning Station Activities
- Meet for Intervention, Reteaching, or Acceleration
- Work on Assigned Skills Practice



Unit 7 Program Resources

WHOLE GROUP TIME



Student Technology

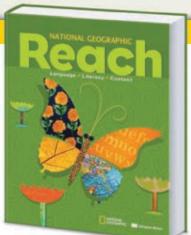
- Student eEdition
- Digital Library
- Build Background Video
- Other Student
 Resources



Student eEdition



Build Background Video



Anthology



Mark-Up Models 7.1, 7.2

SMALL GROUP READING TIME



Fiction Books

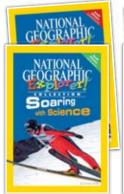




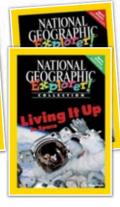


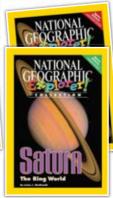


Nonfiction Books



NATIONAL GEOGRAPHIC NATIONAL GEOGRAPHIC MOON







Leveled Book Finder

Story Words	
Forces That Move GARD Inverse our GARD INVESTIGATION GARD GARD GARD GARD GARD GARD GARD GARD	Defining the Loves of Motion Coulomb Space and missions of the Coulomb Space and the Coulomb Spa
Dising Feeter and Michigan **Pytig 1 years **Pytig 1 years **Control of the State of the Stat	The Schence of Heteing at Hecce Past determined in (final text) and determined in (final text) and but determined in (final text) and but determined to the final text of the

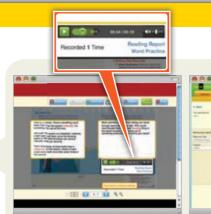
Small Group Reading Masters SG7.1-SG7.32

Explorer Books

Exploring Space







Comprehension Coach





My Vocabulary Notebook

NGReach.com

Student Technology

- My Assignments
- My Vocabulary Notebook
- Vocabulary Games
- Comprehension Coach
- Read with Me MP3s
- Fluency MP3s
- Practice Masters
- Teamwork Activities
- Other Student Resources

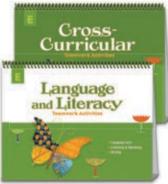


PM7.1-PM7.39

Practice Book



Practice Masters PM7.1-PM7.31



Digital Library

Teamwork Activities







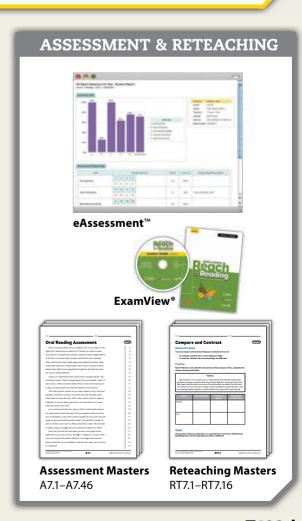
Teacher Technology

- Student and Teacher eEditions
- Lesson Planner
- eVisuals 7.1-7.35
- Family Newsletter 7 (in seven languages)
- Teamwork Activities Teacher's Guides
- Test-Taking Strategies Teacher's Guide
- Professional Development
- Other Teacher Resources



Teacher's Edition

- Whole Group Lessons
- Practice Masters
- Small Group Reading
- Assessment and **Reteaching Masters**



Unit 7

- BL = BELOW LEVEL
- OL = ON LEVEL
- BL = BELOW LEVEL
- AL = ABOVE LEVEL
- = TESTED SKILL

Introduce Unit 7

BUILD BACKGROUND VIDEO

INTRODUCE THE BIG QUESTION

WHOLE GROUP TIME

Speaking and Listening

Language and Vocabulary

Reading

Week 1



Ask and Answer Questions Explain a Concept

- ☑ Daily Spelling and Word Work: Words with hard and soft *c* and *g*, and Commonly Misspelled Words
- **☑** Daily Grammar: Adverbs and Adjectives
- Academic Vocabulary

 average distance rate scale solve

 comparison synthesize conclusion

Read and Comprehend a Math Article

- Compare and Contrast
- Synthesize Conclusions
- **☑** Fluency: Practice Intonation

Week 2



Discuss Drawing Conclusions
Relate Readings to the Big Question

- Daily Spelling and Word Work: Words with oo; words with silent consonants, and Commonly Misspelled Words
- Daily Grammar: Adverbs (including comparisons with -er and -est, more/ most, less/least)
- Multiple-Meaning Words

Read and Comprehend a Science Report

- **Solution** Explain Scientific Text
- Synthesize Conclusions Read and Comprehend Other Astronauts' Reports
- Reasons and Evidence
 Compare Facts and Opinions
- Fluency: Practice Intonation

Week 3



Clarify Report on a Concept

- ☑ Daily Spelling and Word Work: Words with VCV and VCCV patterns, and Commonly Misspelled Words
- ☑ Daily Grammar: Relative Adverbs: when, where, and why
- Social Studies Vocabulary
 astronaut launch orbit planet
 rotation
- Academic Vocabulary
 capacity constant limit resistance
 technology clarify generalization

Read and Comprehend Realistic Fiction

- **Oetermine** Plot
- Synthesize Generalizations
- Fluency: Practice Expression

Week **4**



Discuss Generalizations Relate Readings to the Big Question

- Daily Spelling and Word Work: Multisyllabic words with VCCV and VCCCV patterns, and Commonly Misspelled Words
- ☑ Daily Grammar: Prepositions and Prepositional Phrases
- **Word Parts**

Read and Comprehend a Biography

- Compare Points of View
- Synthesize to Form Generalizations
 Read and Comprehend a Report
- Compare and Contrast Accounts
- Fluency: Phrasing

Unit 7 Wrap-Up

ANSWER THE BIG QUESTION

UNIT PROJECTS

BIG Question What does it take to explore space?

Writing	SMALL GROUP READING TIME	LEARNING STATION TIME	ASSESSMENT & RETEACHING
Power Writing Write a Comparison Write a Conclusion Write About Graphs Write About It Daily Writing Skills: Identify Big Concepts and Integrate Information from Multiple Sources Research Project: Identify Big Concepts and Integrate Information from Multiple Sources	Soaring with Science BL Forces that Move BL Defining the Laws of Motion OL Using Force and Motion AL The Science of Hitting a Home Run: Forces and Motion in Action	Speaking and Listening Who or What Is Faster?; Observe a Slow Animal Language and Vocabulary Games; My Vocabulary Notebook Writing Report on the Night Sky; Write a Review Cross-Curricular Animal Olympics; Which Way is Fastest? Reading and Intervention Comprehension Coach; Author Study: Robert E. Wells; Phonics; ESL Kit	 ✓ Compare and Contrast ✓ Synthesize and Draw Conclusions ✓ Fluency: Practice Intonation ✓ Science and Academic Vocabulary ✓ Spelling: Words with hard and soft c and g, and Commonly Misspelled Words ✓ Grammar: Adverbs and Adjectives
Power Writing Write About Ideas Write a Response Write to Reinforce Grammar Write About Reasons and Evidence Write Facts and Opinions Daily Writing Skills: Break Up Long Sentences Writing Project: Write an Informational Essay	Destination Moon Lighter on the Moon Lexploring Space Lexploring Space Lexploring Space Station Lexploring Space AL Stars and Galaxies	Speaking and Listening When? Where?; Learn About Space Language and Vocabulary Games; My Vocabulary Notebook Writing Space Log; Describe a Planet to Visit Cross-Curricular Measure the Pull; Study Human Habitats Reading and Intervention Read About Extreme Human Habitats; Author Study: Anastasia Suen; Phonics; ESL Kit	 ✓ Explain Scientific Text ✓ Synthesize and Draw Conclusions ✓ Fluency: Practice Intonation ✓ Multiple-Meaning Words ✓ Spelling: Words with oo, words with silent consonants, and Commonly Misspelled Words ✓ Grammar: Adverbs ✓ Writing: Break Up Long Sentences ✓ Writing Trait: Sentence Fluency
Power Writing Write to Retell Write Generalizations Write Dialogue Writer's Craft: Descriptive Words Write About It Daily Writing Skills: Use a Concluding Sentence Writing Project: Write an Original Story	Living It Up in Space BL Richie's Rocket BL Stanley in Space (Part 1) OL Star Jumper: Journal of a Cardboard Genius (Part 1) AL Space Mission Adventure (Part 1)	Speaking and Listening Give an Example; Restate Moon Facts Language and Vocabulary Games; My Vocabulary Notebook Writing Quote, Unquote; What Would You Say? Cross-Curricular Put a Ball in Orbit; How Space Research Affects People Reading and Intervention Comprehension Coach; Author Study: Diana Hutts Aston; Phonics; ESL Kit	✓ Determine Plot ✓ Synthesize to Form Generalizations ✓ Fluency: Practice Expression ✓ Science and Academic Vocabulary ✓ Spelling: Words with VCV and VCCV patterns, and Commonly Misspelled Words ✓ Grammar: Relative Adverbs ✓ Writing: Concluding Sentences ✓ Writing Trait: Organization
Power Writing Write With a Point of View Write a Response Write to Reinforce Grammar Write About Accounts Write About Point of View Daily Writing Skills: Maintain Point of View Writing Project: Write a Personal Narrative	Saturn: The Ring World BL Moonshot BL Stanley in Space (Part 2) OL Star Jumper: Journals of a Cardboard Genius (Part 2) AL Space Mission Adventure (Part 2)	Speaking and Listening Watch a Video; What's in Moon's Future? Language and Vocabulary Games; My Vocabulary Notebook Writing What Did You Say?; Write About Your Moon Landing Cross-Curricular Race to the Moon; Space Speeds Reading and Intervention Read Reactions; Read Other Stories About the Moon Landing; Phonics; ESL Kit	 ✓ Compare Points of View ✓ Synthesize to Form Generalizations ✓ Fluency: Practice Phrasing ✓ Word Parts ✓ Spelling: Multisyllablc words with VCV and VCCV patterns, and Commonly Misspelled Words ✓ Grammar: Prepositions and Prepositional Phrases ✓ Writing: Maintain Point of View ✓ Writing Trait: Voice

Week 1 Planner



= TESTED Day 2 Day **1** WHOLE GROUP TIME **Listen and Comprehend Read and Comprehend** Science Background Academic Talk CC.4.SL.6 CC.4.SL.1.a; CC.4.SL.2 **Speaking and Listening** Introduce the Big Question; Explain a Concept T428a Preview Unit Projects T424-T425 5-10 minutes **Academic Talk** Ask and Answer Questions T426 Daily Spelling and Word Work CC.4.Rfou.3; CC.Rfou.3.a; **Daily Spelling and Word Work** CC.4.Rfou.3; **Language and Vocabulary** Words with Hard and Practice T423k CC.4.Rfou.3.a; CC.4.L.2.d CC.4.L.1.g; CC.4.L.2; Soft c, q T423k CC.4.L.2.d 20 minutes **Daily Grammar** CC.4.L.1; CC.4.L.3 **Daily Grammar** CC.4.L.1; CC.4.L.3 More Adverbs T423m Adverbs T423m **Science Vocabulary** CC.4.Rlit.4; CC.4.Rinf.4; Academic Vocabulary CC.4.Rlit.4; CC.4.Rinf.4; Learn Key Words T426-T427 Learn More Key Words T428a-T429 CC.4.L.6 CC.4.L.6 accelerate height measure motion average conclusion distance rate scale solve synthesize speed Reading Reading CC.4.Rinf.10 Reading Anthology Read Aloud: Science Essay T427a Read a Book Report; Read and Build 20-40 minutes Comprehension T430 Comprehension CC.4.Rinf.5 Comprehension CC.4.Rinf.10 Compare and Contrast T427a Synthesize T430 Draw Conclusions T430 CC.4.Rfou.4 CC.4.Rfou.4 **Fluency** Fluency Model Intonation T427a ✓ Practice Intonation T430 **Power Writing** T426 Power Writing T428a CC.4.W.10 CC.4.W.10 Writing **Daily Writing Skills** CC.4.Rinf.9; CC.4.W.2; CC.4.W.2.a; **Daily Writing Skills** CC.4.Rinf.9: CC.4.W.2: CC.4.W.2.a: Identify Big Concepts and Integrate ✓ Identify Big Concepts and Integrate CC.4.W.8 CC.4.W.8 15-45 minutes Information from Multiple Sources T423o Information from Multiple Sources T423o Writing CC.4.W.10 Writing CC.4.W.10 Write a Comparison T428 Write a Conclusion T430–T431

SMALL GROUP READING TIME

Fiction & Nonfiction

20 minutes

Read Science Articles

Sources

Plan T445a

Vocabulary CC.4.L.6 Learn Science Vocabulary SG5

Research Project: Identify Big Concepts/

Integrate Information from Multiple

Reading CC.4.Rinf.4; Read and CC.4.Rinf.10

Informational Text SG4 –SG5

Determine Word

Meanings SG4–SG5 ☑Build Comprehension SG5

Moon

CC.4.W.2

CC.4.W.2.a:

CC.4.W.2.b

Read Nonfiction Books

Integrate Information

Research T445a

Research Project: Identify Big Concepts/

Vocabulary Learn Story Words SG6-SG7

Reading CC.4.Rinf.10; Introduce SG6–SG7 CC.4.Rinf.5

✓Draw Conclusions SG8–SG9

Explain Text Structure:
Compare and Contrast
SG8–SG9



CC.4.W.2.b;

CC.4.W.7; CC.4.W.8

LEARNING STATION TIME



20 minutes



 Speaking and Listening
 T423iCC.4.SL.1; CC.4.SL.1.c; CC.4.L.5

 Language and Vocabulary
 T423i
 CC.4.L.6

 Writing
 T423i
 CC.4.W.2; CC.4.W.3; CC.4.W.3.a

 Cross-Curricular
 T423j
 CC.4.W.7; CC.4.SL.1; CC.4.SL.4

 Reading and Intervention
 T423j, SG68
 CC.4.Rinf.10; CC.4.Riou.4; CC.4.Riou.4.b; CC.4.Riou.4.b; CC.4.Riou.4.b; CC.4.Riou.4.c

BiG Question What does it take to explore space?

Day 3	Day 3 Day 4	
Read and Comprehend	Read and Comprehend	Review and Apply
Academic Talk CC.4.Rinf.1 Preview and Predict T432	Academic Talk CC.4.Rinf.2 Summarize Reading T440	Academic Talk CC.4.Rinf.1 Talk About It T444
Daily Spelling and Word Work ✓ Practice T423l CC.4.Rfou.3; CC.Rfou.3.a; CC.4.L.2 Daily Grammar ✓ Adverb vs. Adjective T423n	Daily Spelling and Word Work ✓ Practice T423I CC.4.Rfou.3; CC.4.L.1.g; CC.4.L.2.d Daily Grammar ✓ Grammar and Writing T423n	Daily Grammar CC.4.W.5; CC.4.L.1; CC.4.L.3 ✓ Review T423n
Vocabulary Practice CC.4.L.6 ✓ Expand Word Knowledge T432	Vocabulary Practice CC.4.L.6 ✓ Share Word Knowledge T440	Vocabulary Review CC.4.L.6 ✓ Apply Word Knowledge T444
Reading CC.4.Rinf.7; Read a Math Article T433–T438 Comprehension CC.4.Rinf.7; Draw Conclusions T436–T438 Compare and Contrast T436–T438	Reading CC.4.Rinf.7; Read a Math Article T441–T442 Comprehension CC.4.Rinf.7; Draw Conclusions T441–T442 Compare and Contrast T441–T442	Reading Reread a Math Article T433–T442 Comprehension CC.4.Rinf.10 CC.4.Rinf.10 CC.4.Rinf.10 CC.4.Rinf.10
 ✓Interpret Graphs T434, T438 Fluency CC.4.Rfou.4; CC.4.Rfou.4.b ✓Practice Intonation, Accuracy, and Rate T434–T435 	Fluency CC.4.Rfou.4; CC.4.Rfou.4.b Practice Intonation, Accuracy, and Rate T441	Fluency CC.4.Rfou.4.b Check Intonation, Accuracy, and Rate T445
Power Writing T432 CC.4.W.10 Daily Writing Skills CC.4.Rinf.9; CC.4.W.2; ✓ Identify Big Concepts and Integrate CC.4.W.2.a; Information from Multiple Sources T423p CC.4.W.8 Writing CC.4.W.9; CC.4.W.9b; ✓ Write About Graphs T439 CC.4.W.10 Research Project: Identify Big Concepts CC.4.W.7;	Power Writing T440 CC.4.W.10 Daily Writing Skills CC.4.Rinf.9; CC.4.W.2; Identify Big Concepts and Integrate CC.4.W.2.a; Information from Multiple Sources T423p CC.4.W.8 Writing CC.4.W.10 Write Reasons T443 Research Project: Identify Big Concepts CC.4.Rinf.9;	Power Writing T443a CC.4.W.10 Daily Writing Skills CC.4.Rinf.9; CC.4.W.2; ✓ Identify Big Concepts and Integrate CC.4.W.2.a; CC.4.W.8 Information from Multiple Sources T423p Writing CC.4.W.10 ✓ Write About It T444 Research Project: Identify Big Concepts CC.4.W.2.a;
and Integrate Information CC.4.W.8 ✓ Research T445a	and Integrate Information CC.4.W.2.e ✓Organize T445b	and Integrate Information CC.4.SL.5 ✓ Present T445b
Read Nonfiction Books	Read Nonfiction Books	Read Nonfiction Books
Vocabulary CC.4.L.6 Expand Vocabulary Through Wide Reading SG6–SG9	Vocabulary Expand Vocabulary Through Wide Reading SG6-SG9	Vocabulary Expand Vocabulary Through Wide Reading SG6–SG7 CC 4 Bin 6 3



Reading CC.4.Rinf.10; TDraw Conclusions CC.4.Rinf.5 SG8-SG9

Explain Text Structure: Compare and Contrast SG8-SG9



SG6-SG9

Reading CC.4.Rinf.10; **☑**Draw Conclusions CC.4.Rinf.5 SG8-SG9

Explain Text Structure: Compare and Contrast SG8–SG9



Reading CC.4.Rinf.2; CC.4.Rlit.10; Connect Across Texts SG9 CC.4.SL.1.a CC.4.W.10

Writing Choose a Writing Option SG8-SG9



ASSESSMENT & RETEACHING

Assessment and Reteaching T445c-T445d

Reading Comprehension Test A7.4–A7.5 CC.4.Rinf.1; CC.4.Rinf.2

Reading Strategy Assessment CC.4.Rlit.10 SG57-SG58

☑ Oral Reading Assessment A7.1–A7.3 CC.4.Rfou.4.a

Vocabulary Test A7.6−A7.7 CC.4.L.b; CC.4.L.6 Writing, Revising, and Editing Test CC.4.W.10; CC.4.L.1; A7.8-A7.10 CC.4.L.3

Reteaching Masters RT7.1-RT7.2

Week 1 Learning Stations

Speaking and Listening

Option 1: Who or What Is Faster?





PROGRAM RESOURCES

Language and Literacy Teamwork Activities: Card 41

CC.4.SL.1.c Pose and Respond to Questions

Option 2: Observe a Slow Animal





Have partners watch and respond to a video about sloths. To view the video, have students go to Resources > Unit 7 > Learning Stations > Week 1 > Creature Features: Sloths.

- Have one student write a simile to express what he or she learned about sloths.
- Have the other partner visualize the simile and depict it in a drawing.
- · Have partners reverse roles and repeat.

Discuss Topics, Expressing Ideas Clearly CC.4.SL.1 Demonstrate Understanding of Figurative Language CC.4.L.5

Language and Vocabulary

Key Words

accelerate average comparison conclusion distance height measure motion rate scale solve speed synthesize

Option 1: Vocabulary Games X





Acquire and Use Conversational, General Academic, and Domain-Specific Words

CC.4.L.6

Option 2: My Vocabulary Notebook X





Have students expand their word knowledge.

- Under Add More Information > Write a Sentence, have students write sentences using Key Words with the hard and soft c and q sounds.
- Under Add More Information > Write a Sentence, have students write sentences that include adverbs modifying Key Words that are verbs.

Acquire and Use Conversational, General Academic, and Domain-Specific Words

CC.4.L.6

Writing

Option 1: Report on the Night Sky 🕺

The Night Sky

The moon was very bright and full.

MATERIALS

notes and drawings from Family Newsletter 7

Have students write reports about the night sky.

- · Have students recall the night sky activity from Family Newsletter 7 in which they observed the night sky with their families and took notes and made drawings.
- Have students use their notes and drawings to write a report explaining what they observed about the night sky.

Write Informative/Explanatory Text to **Convey Information**

CC.4.W.2

Option 2: Write About an X **Imaginary Race**

The animals lined up to begin the race.

Have students write funny stories about an imaginary race between several slow animals, such as a sloth, a tortoise, and a koala.

- Have students establish the settings of their stories, including the time and location of
- Ask students to use words such as first, next, then, and finally to show the sequence of events.
- · Have students read their stories aloud and act out their favorite parts.

Write Narratives, Using Descriptive **Details and Event Sequences** Establish a Situation and Organize Events in a Sequence

CC.4.W.3

CC.4.W.3.a

Cross-Curricular

Option 1: Animal Olympics



PROGRAM RESOURCES & MATERIALS

Cross-Curricular Teamwork Activities: Card 42

encyclopedia • books about animals • colored markers

Conduct Research	CC.4.W.7
Discuss Topics, Building on Others' Ideas	
and Expressing Ideas Clearly	CC.4.SL.1

Option 2: Which Way Is Fastest?



PROGRAM RESOURCES & MATERIALS

Cross-Curricular Teamwork Activities: Card 43 Digital Library: Language Builder Picture Cards E84-E85

colored markers • stopwatch (optional)

Conduct Research	CC.4.W.7
Report on a Topic	CC.4.SL.4

Reading

Option 1: Comprehension Coach 🟋



Read and Comprehend Informational Texts CC.4.Rinf.10 Read with Accuracy and Fluency to CC.4.Rfou.4 **Support Comprehension** Read Orally with Accuracy and Appropriate Rate on Successive CC.4.Rfou.4.b Readings

Option 2: Additional Reading X

PROGRAM RESOURCES

Week 1 Small Group Reading Titles, page SG6 **Independent Reading Recommended Books,** page SG68

Leveled Book Finder

Have students choose a book they haven't read before from the Week 1 Small Group Reading titles (see page SG6), the **Independent Reading Recommended Books** (see page SG68), or the Leveled Book Finder.

After reading, have students write a sentence about something new they learned. Students may also wish to take books home for additional reading.

Read and Comprehend Informational Text CC.4.Rinf.10

Intervention

Option 1: Phonics Games 🔭



Apply Phonics and Word Analysis Skills CC.4.Rfou.3 Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words CC.4.Rfou.3.a

For Reteaching Masters, see pages RT7.1-RT7.2.

VGReach.com Online Phonics Games

Additional Resources

Reach into Phonics ****



Lessons 100 and 101

Use Context to Confirm or Self-Correct Word Recognition and Understanding

CC.4.Rfou.4.c

ESL Kit XXX



ESL Teacher's Edition pages T424-T445.

$\sqrt[4]{2}$ Daily Spelling & Word Work

OBJECTIVES

Thematic Connection: Forces and Motion

Spell Words with Hard and Soft c, a

✓ Use Commonly Misspelled Words Correctly

SUGGESTED PACING

DAY 1 Pretest

DAY 2-4 **Daily Practice Options**

DAY 5

Spelling Pretest

Spelling Test

XXX

Spelling Words

Use these words and sentences for the weekly Spelling Pretest and Spelling Test.

Words with Ha	ard and Soft <i>c, g</i>
1. advantage	He is a faster runner, so he'll have an advantage over me in the race.
2. broadcast	We can watch the track meet because it will be broadcast on TV.
3. circuit	The elevated train tracks make a <i>circuit</i> around the downtown area.
4. conquer	She rode the roller coaster to conquer her fear of heights.
5. cylinder	The log looked like a brown <i>cylinder</i> rolling down the hill.
6. device	He invented a machine to record the movements of animals, and the <i>device</i> worked well.
7. engineer	An engineer helped design the machine.
8. gadget	I need to wear a gadget that calculates how many steps I walk.
9. genius	The scientist is so smart that people say she is a <i>genius</i> .
10. glimpse	As I whizzed by in the bullet train, I caught a very quick <i>glimpse</i> of the town.
11. gravity	Without <i>gravity</i> to pull people toward Earth, everyone would float away!
12. intelligent	Clever, <i>intelligent</i> aliens might travel to Earth.
13. oxygen	He took a deep breath when running the marathon because he needed more oxygen .
14. replacement	You can return that broken bike and get a replacement .
15. telescope	When I looked through my telescope , I saw a falling star.
Watch-Out Wo	ords
16. finally	After our long hike up the hill, we <i>finally</i> had lunch.

I ate a salad with tiny pieces of **finely** chopped fruit.

The race will begin soon, so all runners should **proceed** to

Will the race **precede** the game or come after it?

Hard and Soft c, g

Day 2



Option 1

Teach

Display the word *circuit*, underline each *c*, and pronounce the word. Explain: When the letter e, i, or y comes after c, c has a soft sound: /s/. When a, o, u, or a consonant comes after c, c has a hard sound: /k/. Have students repeat the word, exaggerating the sound of the letter c.

Display *gadget*, underline each *q*, and pronounce the word. Explain: When the letter e, i, or y comes after q, q usually has a soft sound: /j/. When a, o, u, or a consonant comes after g, g usually has a hard sound: /g/. Have students repeat the word, exaggerating the sound of the letter q.

Prepare

- Arrange students in groups of three. Assign each group member five of the first 15 spelling words.
- Have each student write a sentence for each assigned word, leaving a blank in place of the word.

Play a Game

- Have one student, the Reader, read aloud a sentence.
- Have the other two students, the Guessers, try to guess the word. The first one who correctly guesses and spells the word gets one point. If a Guesser says the wrong word or misspells the word, the Reader gets
- · Students take turns as Reader and Guesser.
- The winner is the student with the most points after all the players have read their sentences.

Apply Phonics and Word Analysis Skills	CC.4.Rfou.3
Use Letter-Sound Correspondences to Read Multisyllabic Words	CC.4.Rfou.3.a

Letter Grid	Day 2	ΧX	Option 2

MATERIALS

scissors

Prepare

Have pairs draw a grid, 5 squares across and 8 rows down. Tell partners to collaborate to write each letter of the following words in a square, leaving leftover squares blank: broadcast, circuit, conquer, cylinder, device.

Ь	r	0	a	d	
С	a	S	t	С	
i	r	С	U	i	
t	С	0	n	q	

Play a Game

Have students cut out the letters, scramble them, and reassemble the words as fast as they can. Have pairs repeat with advantage, engineer, genius, intelligent.

Spell Grade-Appropriate Words	CC.4.L.2.d
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the track.

17. finely

18. precede

19. proceed



Hard and Soft c, g

Day 3

Option 1

MATERIALS

index cards, 17 per group

Prepare

- Have groups of three students collaborate to write each of the first 15 spelling words and precede and proceed on separate cards.
- Have students spread the cards face up on a table.

Play a Game

- Have Student 1 make a soft or a hard sound, such as a gentle hum or a sharp rap on the table.
- While Student 3 looks away, have Student 2 choose one of the cards based on the sound: for example, genius for a soft sound.
- Have Student 2 read the word to Student 3, who spells the word and uses it in a sentence. If Student 3 makes an error, the other students help correct it.
- Once a word is spelled correctly, have students remove the card.
- Have students switch roles and continue until all the cards have been read and spelled.

Apply Phonics and Word Analysis Skills Use Letter-Sound Correspondences to Read Multisyllabic Words

CC.4.Rfou.3 CC.4.Rfou.3.a

The Right Word

Day 4

Option 1

MATERIALS

index cards, 4 per student • print or online dictionary, one per pair

Prepare

- Have pairs of students use a print or online dictionary to check the spelling and meaning of each Watch-Out Word.
- Have students work on their own to write a sentence for each Watch-Out Word on a separate card. Tell them to leave a blank line for the word.

Play a Game

- Have pairs switch cards and fill in the words.
- Tell students to check their work together. If one partner agrees that the other's word is correct, the student gets one point.
- · Students may tie. If not, the student with more points wins.

The marble statue is <u>finely</u> crafted.

Use Frequently Confused Words Consult References

CC.4.L.1.q CC.4.L.2.d

Comic Strips

Day 3



Option 2

Make a Drawing

- Have pairs of students use as many spelling words as possible to create one or more comic strips.
- · Have students underline each spelling word.
- · Invite students to display their comics.



Demonstrate Command of Spelling

CC.4.L.2

Sound Sort

Day 4



Option 2

MATERIALS

4 different-colored highlighters • scissors • light-colored sheet of construction paper

Prepare

- Have students write the first 15 spelling words and precede and proceed on a sheet of paper. Have them write circuit and gadget twice.
- Have students highlight each of these elements in the words in a different color: soft c, hard c, soft q, hard q.
- For circuit and gadget, ask students to highlight both hard and soft c or *q* sounds in each word.
- · Have students cut out each word.
- On construction paper, have students make a four-column chart with these headings: S in Sea, C in Car, J in Jam, G in Gum.

Practice

Have students read each word and look at the highlighted letters to place each word in the correct column on the chart.

Apply Phonics and Word Analysis Skills

CC.4.Rfou.3

Week 1 Daily Grammar

OBJECTIVES

Thematic Connection: Forces and Motion

Grammar: Use Adverbs and Adjectives

COMMON CORE STANDARDS

Edit Writing

Demonstrate Command of Grammar

Use Knowledge of Conventions

CC.4.W.5

CC.4.L.1

CC.4.L.3

Day 1

PROGRAM RESOURCES

MATERIALS

Adverbs: eVisual 7.2

index cards, 12 per group • paper bags, 2 per group

Teach the Rules

Use the suggestion on page T428 to introduce adverbs that modify verbs. Display eVisual 7.2.

Adverbs

- An adverb modifies a verb. It can come before or after a verb and tells how, where, when, or how often/ how much.
- Many, but not all, adverbs end in -ly.

He runs **slowly**. (how)

I usually jog. (when, how often)

The rocket tumbled down. (where)

ONGReach.com Adverbs: eVisual 7.2

Play a Game XXX

Have groups use the words below to play a game. Explain:

- Write each adverb from the box on a card. Put the cards in a bag.
- Players write three things they do each day on slips of paper.
- Take turns drawing a card and a slip from the bag. The player who draws acts out the action on the slip using the adverb on the card he or she drew. For example: catching a bus sneakily.
- Other group members guess the action and adverb. The game ends when players have used all the slips.

quietly	down	sneakily	joyfully	here	outside
quickly	never	sleepily	carefully	up	proudly

Differentiate

SN Special Needs

ISSUE Students are unable to guess actions and adverbs.

STRATEGY Play a modified form of the game.

- Review the meanings of the adverbs in the word list.
- Then have a student tell you something he or she does each day. Write the response on a slip of paper.
- Place an appropriate adverb card at the end of the slip.
- Read aloud the slip and card; for example, I eat breakfast proudly. Then invite the student to act out the sentence.

Day 2

PROGRAM RESOURCES

MATERIALS

More Adverbs: eVisual 7.6 **Game: Practice Master PM7.3** timer

Teach the Rules

Use the suggestion on page T431 to introduce adverbs that modify adjectives and other adverbs. Display eVisual 7.6.

More Adverbs

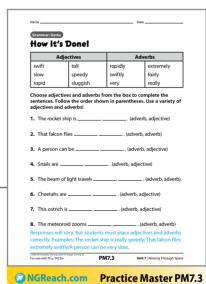
• An **adverb** can make an adjective or another adverb stronger or weaker.

He is extremely speedy. She dives fairly well.

NGReach.com More Adverbs: eVisual 7.6

Play a Game XX

Have partners use Practice Master PM7.3 to play a game.



Differentiate

BL Below Level

ISSUE Students cannot determine whether an adverb is modifying an adjective or another adverb.

STRATEGY Explain: You can use the verb in a sentence as a clue to whether a word is an adjective or adverb.

Display and read the following sentences aloud:

- The snake is **really quick**.
- The snake slithers really quickly.

Model identifying adjectives after the verb is and adverbs after action verbs. Then have students practice with these sentence frames several times.

The spider is ______. (adverb, adjective)

The spider ______ (action verb, adverb, adverb)



Day 3

PROGRAM RESOURCE

MATERIALS

Adverb vs. Adjective: eVisual 7.7

timer • index cards, 10 per team

Teach the Rules

Use the suggestion on page T439 to help students distinguish between adverbs and adjectives. Display eVisual 7.7.

Adverb vs. Adjective

- Make sure to use an adverb (not an adjective) to tell about a verb.
- Never use an adverb after a form of the verb be.

rapidly

The skater **spins** rapid.

The skater **is** rapidly.

MGReach.com Adverb vs. Adjective: eVisual 7.7

Play a Game XXX

Arrange students into teams and distribute index cards. Display the word list. Allow three minutes for Step 3. Explain:

- 1. As a team, write each listed word on a separate card.
- 2. Sort your cards into two piles: adverbs and adjectives.
- 3. Choose three words from each pile. As a team, collaborate to write six sentences, one for each word. You will have four minutes. Exchange sentences with another team for scoring. Score one point for each adverb or adjective used correctly in a sentence. The team with more points wins.

Word list: kind, patiently, early, busy, sudden, sadly, happy, recently, calmly, last

Differentiate

AL Above Level

ISSUE Students see that some words can be an adverb or an adjective.

STRATEGY Remind students: *An adverb tells how, where, or when* about a verb. An adjective tells about a noun or pronoun. Have students complete each sentence with the word in parentheses and tell whether it modifies a verb, noun, or pronoun in the sentence.

- The athlete is _____. The athlete runs _____. (fast)
- The _____ students got seats. We arrived _____. (early)
- The games are _____. Sunday. The girls play _____. (next)

Day 4

PROGRAM RESOURCE

Grammar and Writing: Practice Master PM7.4

Grammar and Writing X

Distribute **Practice** Master PM7.4. Have students use editing and proofreading marks to correct errors with adverbs and adjectives.



Day 5

PROGRAM RESOURCES

Writing, Revising, and Editing Test: Assessment Masters A7.8-A7.10

Review and Assess XX

Display the sentences below. Have partners underline the adverbs. Tell each pair to make a 3-column chart with these headings: Verb, Adverb, Adjective. Have students categorize the adverbs in the sentences by the part of speech each modifies and then list the words in the correct column on the chart.

- 1. The sun sparkled brightly. (brightly, verb)
- 2. The bike is really sleek. (really, adjective)
- 3. She spoke very sharply. (very, adverb; sharply, verb)
- 4. He walked quite slowly. (quite, adverb; slowly, verb)

Administer the Writing, Revising, and Editing Test.

Week 1 Daily Writing Skills

Day 1

XXX

OBJECTIVE

Thematic Connection: Forces and Motion

☑ Identify Big Concepts and Integrate Information from **Multiple Sources**

PROGRAM RESOURCES

Integrate Concepts

Integrating Information: eVisual 7.3 Big Concept Paragraph: eVisual 7.4

Teach the Skill

Review that when you write about a topic, you gather information and take notes. Explain that you then must combine, or integrate, the information and identify the main ideas, or big concepts.

Say: *Integrating information isn't that different from the way a reader* synthesizes information about a topic during reading. Great writers always integrate ideas to make it easy for readers to understand their text. Then display eVisual 7.3.



Integrating Information

Scientists have now discovered that the rate of change in the size of Earth is only 0.004 inches (0.1 millimeters) a year.

An international group of scientists discovered that Earth's size is changing an average of 0.004 inches a year. That's about the thickness of a human hair.

NGReach.com Integrating **Information: eVisual 7.3**



INTERACTIVE WHITEBOARD TIP: Underline change, size, and Earth on each card.

Model the process of integrating information:

- First, I review the note cards to see which ideas are connected. I realize that both note cards tell how the size of Earth is changing—only a tiny bit.
- Next, I need to join these ideas together in a paragraph, using transitions and stating the big concept, or main idea. Display eVisual 7.4.



Big Concept Paragraph

The size of Earth is not changing, at least in any major way. How do we Know? A team of scientists from around the world has recently used new ways of measuring the size of Earth. They found that Earth changes only about 0.004 inches, or 0.1 millimeters, a year. That's only about the thickness of a human hair!

NGReach.com Big Concept Paragraph: eVisual 7.4



Have students identify the big concept, or main idea. Point out how the writer integrated ideas from the two sources. Then ask: How might a visual of a human hair, maybe next to a ruler, help readers understand the big concept?

SUGGESTED PACING

DAY 1 Teach the Skill

DAY 2-4 Daily Practice Options DAY 5 Review and Assess

Integrate Information

Day 2



Option 1

PROGRAM RESOURCES

Digital Library: Language Building Picture Cards E86 and E89

Practice

Display the image of the girl at space camp and the image of zerogravity training. Have partners discuss what they see, take notes, put the information and ideas together, and write a sentence about how people in space work and move. (Possible sentence: People who work in space must wear special space suits and learn to move in zero gravity.)

If students need support, display these questions for partners to answer and discuss.

- 1. What is the girl wearing? What is she doing? How is she moving?
- 2. What are the men wearing? Where are they? How are they moving?

Invite partners to share their sentences with another pair of students.

Integrate Information

Day 2



Option 2

PROGRAM RESOURCES

Nonfiction books and Explorer Books for Unit 7

Introduce

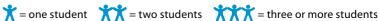
Have partners take out two small-group books or Explorer Books they have read or are reading related to space or planets.

Practice

Have partners decide on a topic that is covered in both books. Have them read and take notes from each book.

Tell students to combine the information and write a sentence or two, introducing their topic and stating a main idea, or concept, based on their notes and information from the two books.

Invite partners to share and compare their writing with another pair of students.







COMMON CORE STANDARDS

Integrate Information from Two Texts Write Informative/Explanatory Text to Examine a Topic and to Convey Information CC.4.Rinf.9 CC.4.W.2 Group Related Information in Paragraphs and Sections, and Include Illustrations and Multimedia Gather Information, Take Notes, and Categorize Evidence

CC.4.W.2.a

CC.4.W.8

Group Related Information

Day 3



Option 1

PROGRAM RESOURCES

Cheetah Note Cards: eVisual 7.8

Introduce

Display eVisual 7.8 and explain that a writer took these notes while gathering information about cheetahs.



Cheetah Note Cards

The cheetah, the fastest mammal on land, can reach speeds of 60 to 70 miles an hour. Its keen eyesight helps it find prey during the day.

Cheetahs eat small- to medium-sized animals, such as hares, calves, and gazelles.

When the cheetah sights its prey, it creeps up to it carefully. Its coat makes it hard to see, as it blends in with the tall grasses of the plains.

NGReach.com Cheetah Note Cards: eVisual 7.8



INTERACTIVE WHITEBOARD TIP: Circle prey in two of the note cards.

Practice

Have students examine the note cards and write sentences that integrate information from the note cards.

Illustrate a Research Topic



Option 2

MATERIALS

science texts • encyclopedias • articles from reliable online sources • other materials about ostriches, cheetahs, and peregrine falcons

Introduce

Point out the facts about animal speeds shown in the graph and in the text on Anthology pages 434-435.

Practice

Have each small group choose one animal shown in the graph and read additional information about it.

Have students take notes, look for ideas that could be linked together well in a paragraph, decide on a main idea, and write a paragraph about it. Encourage students to describe or design a visual that supports the text.

Write Text with Multimedia

Day 4



MATERIALS

science texts • encyclopedias • articles from reliable online sources • other materials about ostriches, cheetahs, and peregrine falcons

Practice

Have students take out the sentences or paragraphs they wrote on Day 3. Have them write a new paragraph about the topic. If necessary, provide time for them to consult more references to find additional information.

Make sure students combine related information and identify main ideas, or big concepts.

Encourage students to display photographs, show illustrations, use charts or graphs, or even present clips from DVDs or videos to support concepts and add interest. Invite students to present their informational pieces in small groups.

Review and Assess

Day 5



PROGRAM RESOURCES

Writing, Revising, and Editing Test: Assessment Masters A7.8-A7.10

Review the Skill

Have students explain how to gather and integrate information in order to write about a topic. Provide a word bank and cloze paragraph. Students choose

diagrams topic paragraphs DVD notes photographs big concept resources

Word Bank

words from the word bank to complete the sentences.

First, gather information from different (resources), read, and take (notes). Next, group related information in (paragraphs). Then, introduce the (topic) and identify the main idea, or (big concept), in each paragraph. Finally, add visuals, such as (diagrams), (photographs), or clips from a (DVD) to support the big concepts.

Administer the Writing, Revising, and Editing Test.

${ m Day}\,{f 1}$ Introduce Unit 7

OBJECTIVES

Thematic Connection: Forces and Motion Preview Content by Paraphrasing Information

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Unit Concept Map: Practice Master PM7.1

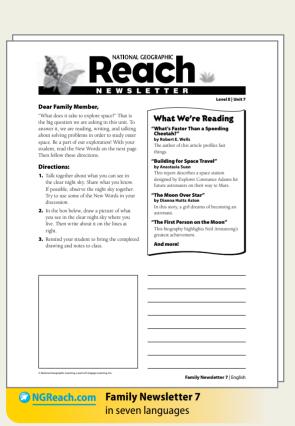
Family Newsletter 7

TECHNOLOGY ONLY

Unit 7 Build Background Interactive

MATERIALS

colored pencils • markers or crayons



COMMON CORE STANDARDS

Speaking and Listening

Draw on Information to Explore Ideas CC.4.SL.1.a Paraphrase Visual, Quantitative, and CC.4.SL.2 Oral Information

WARM-UP

Direct students' attention to the picture of the astronaut on **Anthology** pages 424–425. Ask students to explain what is happening in the photo. Ask: *What do you think it is like to explore space?* (Possible responses: quiet, scary, amazing)

Science Background

1 Big Question Anthology page 424

Read aloud the Big Question. Explain to students that this unit is about space. Students will read about different types of objects in space and how they move. They will also read about ways that scientists explore space in order to answer the question. Distribute **Family Newsletter 7**.

2 Share What You Know Anthology page 425

Activate prior knowledge. Ask: What color is the night sky? What colors are the moon, stars, and planets? Encourage students to use their imaginations as they try to picture specific objects. Display **Student eEdition** page 425, review the instructions, and distribute materials. Post students' drawings and invite students to share their ideas about travel beyond Earth.

3 Build Background Interactive

Display and introduce the interactive: We'll learn about the ways objects move and how their movement is measured. Encourage students to participate actively as they view the interactive. Then discuss what they learned.

- What are some things that move fast? How fast do they move?
- What are some forces that affect **speed** and movement?
- How is movement in space different from movement on Earth?



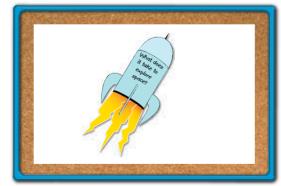
Anthology pages 424-425

Unit Projects

4 Introduce the Unit Concept Map

Review the Big Question. Encourage students to browse through the pages of the unit, and guide them in making predictions: What do you think you will learn about exploring space? What pictures or words helped you make that prediction? Have pairs compare pages they find interesting.

Display the concept map using Student eEdition page 488 or on a bulletin board in the classroom. Explain: As you go through this unit, you will be organizing your answers to the Big Question in the flames on this concept map. Distribute **Practice** Master PM7.1 and model how to fill in the concept map. Have students add any ideas they may have after using the Build Background interactive.



Concept Map

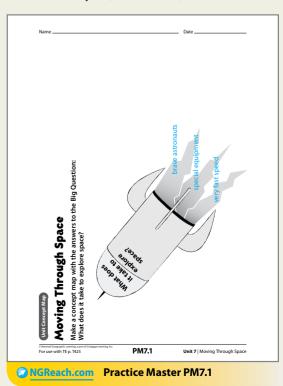
5 Preview Unit Projects

Point out the projects using **Student eEdition** page 489. Have students review the project options and encourage them to begin thinking about which project to choose.

Weekly Writing

Gather students' writing throughout the week:

- √ Daily Writing Skills Practice (T4230–T423p)
- √ Power Writing (T426, T428a, T432, T440, T443a)
- √ Writing (T428, T430–T431, T439, T443, T444)
- √ Research Project (T445a–T445b)



Listen and Comprehend

Science Essay

OBJECTIVES

Thematic Connection: Forces and Motion

Use Domain-Specific Words

Explain Text Structure: Compare and Contrast

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Unit Concept Map: Practice Master PM7.1 Comparison Chart: Practice Master PM7.2

Family Newsletter 7

TECHNOLOGY ONLY

Sing with Me MP3

Digital Library: Key Word Images

My Vocabulary Notebook

Read Aloud: eVisual 7.1

MATERIALS

timer • large notecards

Power Writing

Have students write as much as they can as well as they can in one minute about the word measure.

For **Writing Routine 1**, see page BP47.

COMMON CORE STANDARDS

Reading **Determine Meanings of Words** CC.4.Rlit.4 and Phrases CC.4.Rinf.4 Determine Meanings of Domain-Specific Words **Describe Text Structure** CC.4.Rinf.5 CC.4.Rfou.4 Read with Fluency to Support Comprehension Writing CC.4.W.10 Write Over Shorter Time for **Specific Purposes**

CC.4.L.6

Academic Talk

1 Ask and Answer Questions Anthology page 426

Display Student eEdition page 426 and read aloud the introduction. Then play the Sing with Me Language Song: "Star Search."

Review how to ask and answer questions:

- When you are in a conversation, listen carefully to what each person says.
- If you do not understand what someone says or want to know more, ask a question.
- If someone asks you a question, listen carefully to give the right kind of answer.

Review the question words: who, what, when, where, why, how. Have partners work together to create three questions about objects in space. Give examples: What causes the moon to change its shape? Why are some stars brighter than others?

Have one set of partners restart the group discussion by asking a question about space. Encourage others to extend the conversation with more questions and answers. If students ask questions that no one can answer, discuss what they could do to find the answer.

Science Vocabulary

2 Key Words ✓ **Anthology** page 427

Explain and model using Vocabulary Routine 1 and the images on **Student eEdition** page 427 to learn the Key Words.



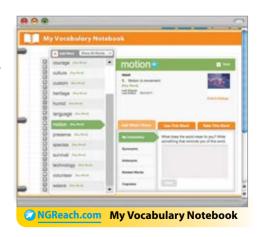
- **Pronounce the word** and point to the image: height.
- Rate the word. Hold up your fingers to show how well you know the word (1 = very well; 2 = a little; 3 = not at all). Tell what you know about this word.
- **Define the word: Height** is how tall someone or something is.
- **Elaborate.** Relate to experience: My **height** now is greater than it was last year.

For **Vocabulary Routine 1**, see page BP34.

For more images of the Key Words, use the **Digital Library**.

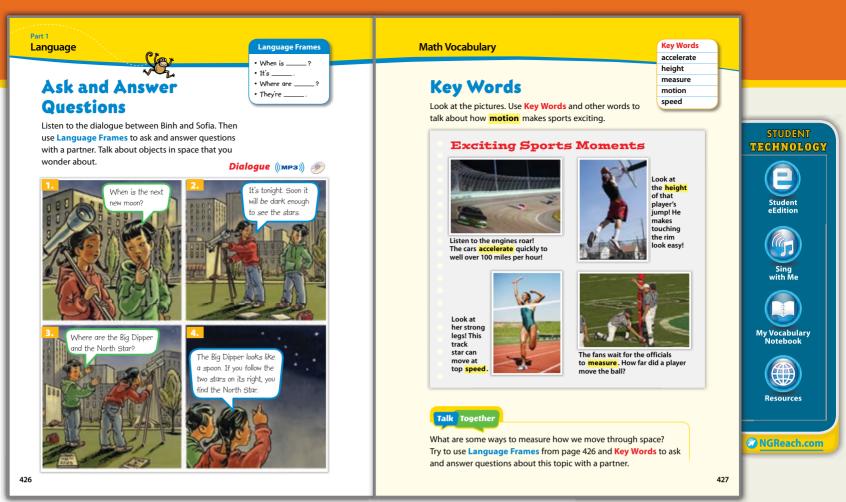
Have partners take turns repeating the routine for each word from **Student eEdition** page 427 to learn the Key Words. Have each student add the words to My Vocabulary Notebook.

See **Differentiate**



Language and Vocabulary

Acquire and Use Academic and **Domain-Specific Words**



Anthology pages 426-427

3 Talk Together Anthology page 427

Explain: The word space does not always mean outer space. Here it means the area around us. Have partners ask and answer questions about measuring an athlete's movements. Their questions and answers should include question words and Key Words, such as: When do runners accelerate the most during a race? (at the beginning) Remind students they can use the Language Frames on page 426.

Check & Reteach

OBJECTIVE: Use Domain-Specific Words

As students ask and answer questions about measuring movement, listen for correct usage of Key Words.

If students use words incorrectly, provide sentence frames for them to complete orally:

- We can use a meter stick to _____ the length of a baseball bat. (measure)
- The runner with the greatest _____ will win the race. (speed)
- If a car is moving from one place to another, it is in _____. (motion)

Best Practices

Encourage Elaboration As students talk, use general prompts:

- What do you mean by that?
- Can you give some details to explain what you mean?

Differentiate

EL English Learners

ISSUE Students lack English proficiency to understand definitions.

STRATEGY Provide translations of the Key Words. Access Family Newsletter 7 for translations in seven languages. Use cognates for Spanish speakers:

accelerate/acelerar motion/moción

SN Special Needs

ISSUE Students do not find personal meaning in learning new vocabulary.

STRATEGY Have students choose three Key Words that have a connection to something in their lives. Have students use the Key Words in sentences about themselves.

Listen and Comprehend

Science Essay

Wordbench

comparison

[kum-par-i-sun]

compare comparison compare=to find ways things are the same and different com=with pare=arrange -son= act or process

Meaning: showing how things are alike and different

Fluency

Model Intonation Explain the concept: *Intonation* is the rise and fall in the pitch or tone of your voice as you read aloud. Model correct intonation with "Earth vs. Mars." Then have partners practice intonation by reading the captions on Anthology page 428.

Comprehension

4 Compare and Contrast **✓** Anthology page 428

Read aloud the introduction and information about Earth and Mars on **Anthology** page 428. Use a Wordbench to teach the term **comparison**. Then display eVisual 7.1 and read aloud "Earth vs. Mars." Have students listen for ways that the report compares and contrasts the two planets.



Science Essay

Earth vs. Mars

Both Earth and Mars are planets in our solar system, and they are similar in many ways. Both have a solid, rocky surface, both have frozen ice caps on each of their ends, and both planets have changing seasons. Also, Earth and Mars rotate at about the same **speed**. It takes Earth 24 hours to rotate once, and it takes Mars only 37 minutes longer.

Earth and Mars also have many major differences. Earth has a diameter of 13,000 kilometers, while Mars is much smaller. It has a diameter of only 6,800 kilometers. Mars is also much farther from the sun than Earth. Earth is 150 million kilometers from the sun, while Mars is 228 million kilometers from the sun.

The two planets also look very different. Mars is red and orange, but Earth is blue and green, and has many clouds. Earth looks the way it does because it has large amounts of water in its oceans, lakes, and skies. This water helps Earth support life. Mars has very little water and has no life at all.

NGReach.com Read Aloud: eVisual 7.1



5 Map and Talk Anthology page 428

After students read how to make a comparison chart, model how to use the chart. Ask: What do the diameters on the chart tell us about the size of the planets? (Earth is bigger.) Have students make more comparisons based on the next two columns. Have students extend the chart by adding information from the **Read Aloud**.

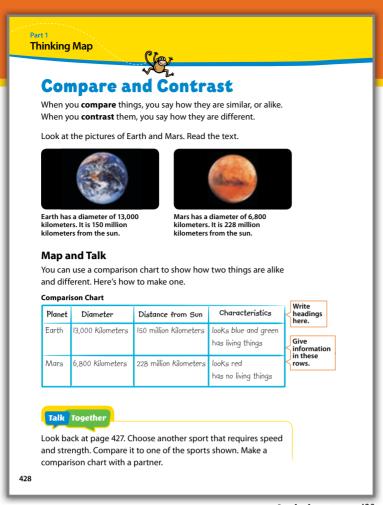
6 Talk Together Anthology page 428 Have students use **Practice Master PM7.2** to make a comparison chart that compares aspects of two sports they know.

Check & Reteach

OBJECTIVE: Explain Text Structure: Compare and Contrast **[**

Have volunteers read aloud their comparison charts while you monitor their ability to compare and contrast.

If students have difficulty comparing and contrasting, ask guiding questions to focus on specific characteristics, such as: Where does a soccer game take place? Where does a football game take place? How are the fields alike? How are they different?



Anthology page 428

Writing

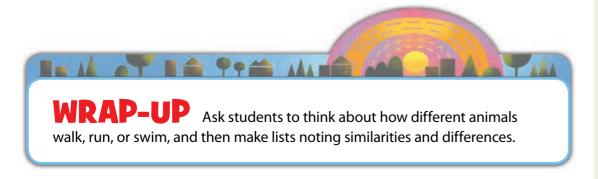
Write a Comparison

Introduce: Now you will write a paragraph that compares and contrasts the two sports you discussed in Talk Together. Model the process.

Think Aloud	Write	
First, I tell what sports I'll compare and how they're alike.	Running and swimming are two great sports. They strengthen the heart, lungs, and muscles.	
Then I will write about how they are different.	You can run almost anywhere. You need a pool, lake, or ocean to swim.	

For Writing Routine 2, see page BP48.

Have students write paragraphs, using the comparison chart they made in **Talk Together**. After they are done, have them share their paragraphs with their partners. Then have them add the paragraphs to their Weekly Writing folders.





Daily Language Arts

Daily Spelling and Word Work 🗹 Pretest page T423k

Daily Grammar

Discuss the word *much* in the **Read Aloud**. Then use page T423m to teach adverbs that signal how much and how.

Daily Writing Skills 🗹

Point out the first sentence in the **Read Aloud**. Then use page T423o to teach how to identify a big concept based on multiple sources of information.



Make a comparison chart to compare one of the sports on page 427 with another sport.

Comparison Chart

Sport	Where	Goal	Measure Speed
swimming	in a pool, in water	to be the first one to finish the race	stopwatch
Possible response: running	Possible response: at a track, on land	Possible response: to be the first one to finish the race	Possible response: stopwatch



Practice Master PM7.2

Day 2 Read and Comprehend Book Report

OBJECTIVES

Thematic Connection: Forces and Motion

Use Academic Words

Draw Conclusions to Comprehend Text

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Unit Concept Map: Practice Master PM7.1 Family Newsletter 7

TECHNOLOGY ONLY

Digital Library: Key Word Images My Vocabulary Notebook

MATERIALS

timer

Power Writing

Have students write as much as they can as well as they can in one minute about the word *speed*.

For **Writing Routine 1**, see page BP47.

WARM-UPExplain: Astronomers have

Explain: Astronomers have learned a lot about space with telescopes and other tools, but many questions remain unanswered. Have students suggest questions that might still be unanswered, such as "How were planets formed?" Ask students to use formal language when they ask their questions.

Academic Talk

1 Explain a Concept

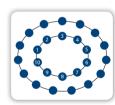
Review: When you discuss a topic, use formal and informal language appropriately. Have students compare the following sentences.

- Saturn has really cool rings made of ice and other stuff.
- Saturn is surrounded by a system of rings made of particles of ice and dust.

Ask: Which sentence is an example of informal language? (sentence 1) Explain: I use informal language to talk to my friends and family. Ask students to name other situations when it is appropriate to use informal language. Then repeat the process to identify and review formal language with the second sentence.

Prompt: *Think of a sport that you enjoy playing or watching.*Have students use informal language to describe that sport.
Use a **Fishbowl**:

- Students on the inside choose sports they enjoy and tell about them.
- Students on the outside listen for informal language.
- Groups reverse positions and continue with different sports. For **Fishbowl**, see page BP45.



Fishbowl

Key Words

scale solve

average distance rate

Academic Vocabulary

2 More Key Words
✓ Anthology page 429

Introduce: Let's learn some more words to help us communicate effectively. Explain and model using

Vocabulary Routine 1 and the images on **Student eEdition** page 429 to learn the Key Words.

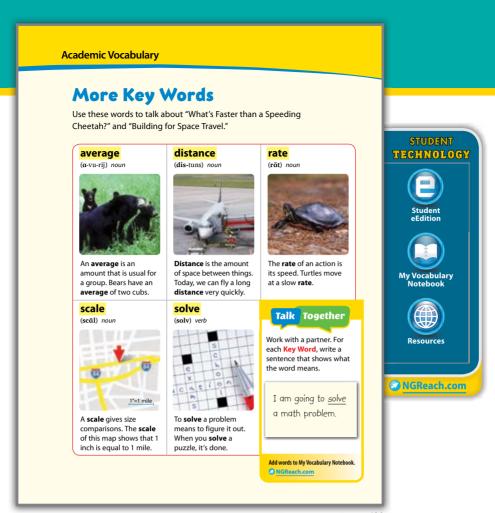
- **Pronounce the word** and point to its image: **average**.
- **Rate the word.** Hold up your fingers to show how well you know the word (1 = very well; 2 = a little; 3 = not at all). Tell what you know about this word.
- **Define the word:** An **average** is an amount that is usual for a group.
- **Elaborate:** I read an **average** of two books a week.

For **Vocabulary Routine 1**, see page BP34.

For more images of the Key Words, use the **Digital Library**.

COMMON CORE STANDARDS

COMMON CORE STANDARDS				
Reading				
Determine Meanings of	CC.4.Rlit.4			
Words and Phrases				
Determine Meanings of	CC.4.Rinf.4			
Academic Words				
Read and Comprehend	CC.4.Rinf.10			
Informational Texts				
Read with Fluency to Support	CC.4.Rfou.4			
Comprehension				
Writing				
Write Over Shorter Time for	CC.4.W.10			
Specific Tasks				
Speaking and Listening				
Differentiate Contexts for	CC.4.SL.6			
Formal and Informal English				
Language and Vocabulary				
Acquire and Use Academic Words	CC.4.L.6			

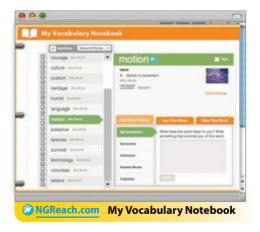


Anthology page 429

Have partners take turns repeating the routine for each word from **Anthology** page 429. Then have each student add the words to **My Vocabulary Notebook**.

See **Differentiate**

Talk Together Anthology page 429 Have partners take turns starting sentences and then finishing them together. Ask volunteers to share one sentence with the class.



Check & Reteach

OBJECTIVE: Use Academic Words

As partners discuss and write sentences, listen for correct usage of the Key Words. If students use words incorrectly, ask questions about the words. Provide examples:

- What word stands for "the amount of space between two things"? (distance)
- What can you use to find out how much an inch equals on a map? (scale)
- What do you do when you find the answer to a problem? (solve)

Differentiate

EL English Learners

ISSUE Students do not understand definitions.

STRATEGY Provide translations of the Key Words. Access **Family Newsletter 7** for translations in seven languages. Use cognates for Spanish speakers:

distance/distancia scale/escala solve/resolver

AL Above Level

ISSUE Students need more challenge in writing sentences with Key Words.

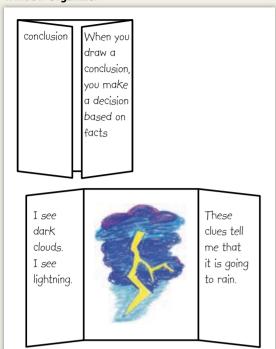
STRATEGY Have students create sentences that correctly use two or more Key Words. They can read aloud sentences to a partner, omitting the Key Words, to see whether the partner can identify the vocabulary based on context clues in the sentence.

Day 2

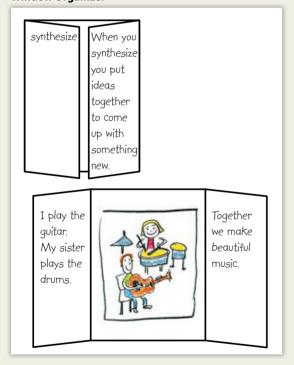
Read and Comprehend

Book Report

Window Organizer



Window Organizer



Fluency

Practice Intonation As partners read aloud "All About All About Io," circulate and listen for correct intonation.

Comprehension

4 Synthesize ✓ **Anthology** pages 430–431

Use two Window organizers to teach the terms **conclusion** and **synthesize**. Project **Student eEdition** page 430 and read aloud the introduction. Ask: *What are the kids doing?* Point out details from the art as you model drawing a conclusion:

- I see that the kids are dressed warmly and that Binh has a flashlight.
- I also see a telescope, an astronomy book, and a notebook about stars.
- I connect ideas and **conclude** that it's night, and they are there to look at the stars.

5 Talk Together Anthology page 431

Read aloud the instructions on **Anthology** page 431. Chorally read the first paragraph of "All About *All About Io*" with students. Then have a volunteer read aloud the sample conclusion.

Ask: What are some details in the text that support the **conclusion**? (It is full of interesting facts about Jupiter.) How does drawing **conclusions** help you know what to expect from Binh's report? (It helps me know what the writing will be like.) Have partners read the rest of the book report and connect the details to draw their own conclusions. Circulate and monitor their conversations.

Check & Reteach

OBJECTIVE: Draw Conclusions to Comprehend Text

Ask: What **conclusion** can you make about the book All About lo when you **synthesize** the details from Binh's book report? (Possible response: lo is an important topic in the book.) If students have difficulty, remind them that *lo* is in the title. Explain that this detail helps you draw the conclusion that lo might be important. Have students point out details that support this conclusion. Ask: What details in the third paragraph give information about lo?

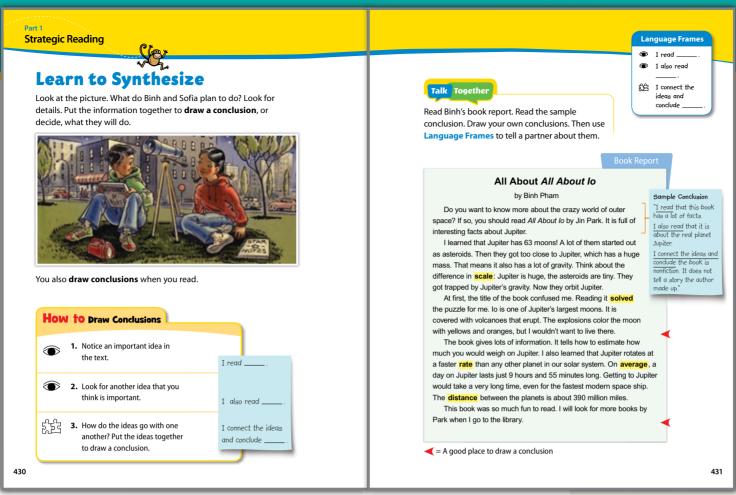
Writing

6 Write a Conclusion

Introduce: Let's write a paragraph to draw a **conclusion** about Binh's book report.

Think Aloud	Write
First, I write about an important detail in the text.	I read that Jupiter has 63 moons.
Next, I tell about another related detail.	I also read that the moons got close to Jupiter because it has a lot of gravity.
Finally, I write my conclusion.	I connect the ideas and conclude that the more mass a planet has, the more gravity and moons it has.

For Writing Routine 2, see page BP48.



Anthology pages 430–431

Have students synthesize two favorite details in "All About *All About Io*" and write a conclusion. Remind students that the details they find must support the conclusion. Have students add their writing to their Weekly Writing folders.

See **Differentiate**

WRAP-UP Have groups of students think about what they learned today about space. Ask students to think about what it took for scientists to get that information. Students can add their ideas to their unit concept maps.

Daily Language Arts Daily Spelling and Word Work ✓ Practice page T423k Daily Grammar ✓ On Anthology page 431, point out the phrase very long time, and explain that very is an adverb that makes long stronger. Then use page T423m to teach how to use adverbs to make other words stronger. Daily Writing Skills ✓ Ask students what sources they might use for more information about Jupiter's moons. Then use page T423o to practice integrating

Differentiate

BL Below Level

ISSUE Students draw many conclusions but not all of them are supported by the text.

information from different sources.

STRATEGY Have students use the Language Frames on page 431 to draw their conclusions based on two or more specific details from the text.

Day 3 Read and Comprehend Math Article

OBJECTIVES

Thematic Connection: Forces and Motion

Explain Text Structure: Compare and Contrast

Draw Conclusions to Comprehend Text

PROGRAM RESOURCES

TECHNOLOGY ONLY

My Vocabulary Notebook

Read with Me: Selection Recordings: MP3 or CD 3
Tracks 1–2

Comprehension Coach

MATERIALS

timer

Power Writing

Have students write as much as they can as well as they can in one minute about ways people use graphs.

For **Writing Routine 1**, see page BP47.

COMMON CORE STANDARDS

COMMON COME STANDAM	
Reading	
Refer to Details and Examples When Explaining Text	CC.4.Rinf.1
Interpret Information Presented Visually and Quantitatively	CC.4.Rinf.7
Read with Fluency to Support Comprehension	CC.4.Rfou.4
Read with Purpose and Understanding	CC.4.Rfou.4.a
Read Orally with Expression on Successive Readings	CC.4.Rfou.4.b
Writing	
Draw Evidence from Texts	CC.4.W.9
Apply Grade 4 Reading Standards	CC.4.W.9.b
Write Over Shorter Time for Specific Audiences	CC.4.W.10
Speaking and Listening	
Paraphrase Visual and	CC.4.SL.2
Quantitative Information Language and Vocabulary	
Acquire and Use Academic and Domain-Specific Words	CC.4.L.6
•	



WARM-UP

Have student pairs make a list of things that move very quickly, and put their lists in order from slowest to fastest. Volunteers can share their lists with the class and use them to practice drawing a conclusion.

Key Words

accelerate average comparison

conclusion distance graph

height measure motion

rate scale solve

speed synthesize

Vocabulary Practice

■ Expand Word Knowledge

Students will practice Key Words by creating Three-Quarter Book Visual Organizers. Use **Vocabulary Routine 2** to model how to make an organizer for the word **accelerate**.

- Write the word on the cover of the organizer.
- Write a definition for the word on the flap inside the organizer.
- Draw a picture illustrating the word on the left inside page.
- Write an example of the word on the right inside page.

For **Vocabulary Routine 2**, see page BP36.

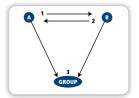
Assign a Key Word to each set of partners. After they complete their organizers, have them add the words and examples to **My Vocabulary Notebook**. Then display the organizers in the classroom.

Academic Talk

2 Preview and Predict

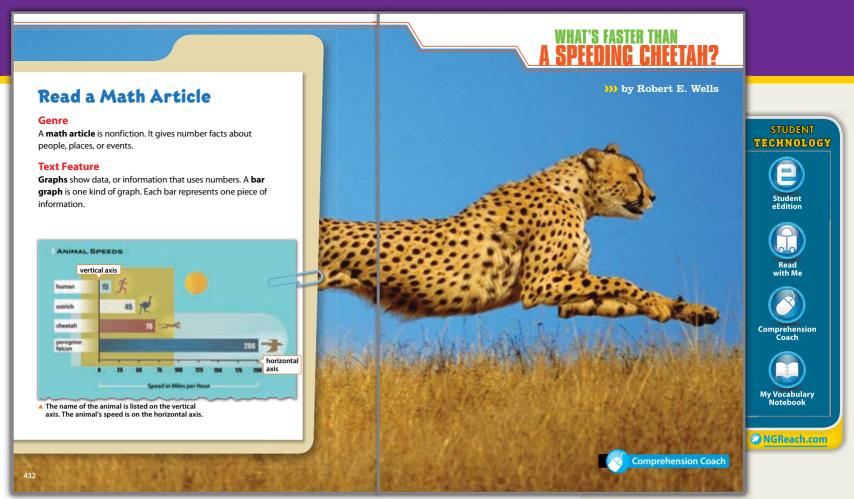
REVIEW Remind students: You can preview and predict what a text will be about by reading the title and section headings and looking at the photos and illustrations. Point out the graph on **Anthology** page 435 and explain: **Graphs** use pictures to show information about number facts. You can also preview graphs to get an idea of what a selection will be about.

Display the Key Words *measure, comparison,* and *graph*. Have students use a **Three-Step Interview** to preview the title, photo, and graph on **Anthology** pages 432–433. Remind students to use the Key Words as they state their predictions about what the article will be about. Have student pairs interview each other and share their partners' predictions with the class.



Three-Step Interview

For **Three-Step Interview**, see page BP46.



Anthology pages 432-433

Reading

3 Read a Math Article Anthology pages 432–433

GENRE Have a volunteer read aloud the definition of a math article. Elaborate: Number facts include information about dates, **speeds**, **distances**, and **heights**.

TEXT FEATURE Ask a volunteer to read aloud the information about graphs. Elaborate: **Graphs** can compare information, such as how large or small a measurement is. You compare the items on a bar **graph** by looking at bar lengths.

SCIENCE BACKGROUND Share information to build background:

- **Speed** affects the things you see and hear every day.
- For example, you see a flash of lightning before you hear the rumble of thunder because light travels at a faster **speed** than sound.
- In fact, light moves so fast that it travels from the sun to Earth in only 8.3 minutes.

Have students read **Anthology** pages 433–439. See **Differentiate**

Differentiate



FRONTLOAD Preview graphs, examining labels. Read the story. Use questions to build comprehension...

OL On Level

READ TOGETHER Have groups read the selection together. Use the questions to build comprehension.



AL Above Level

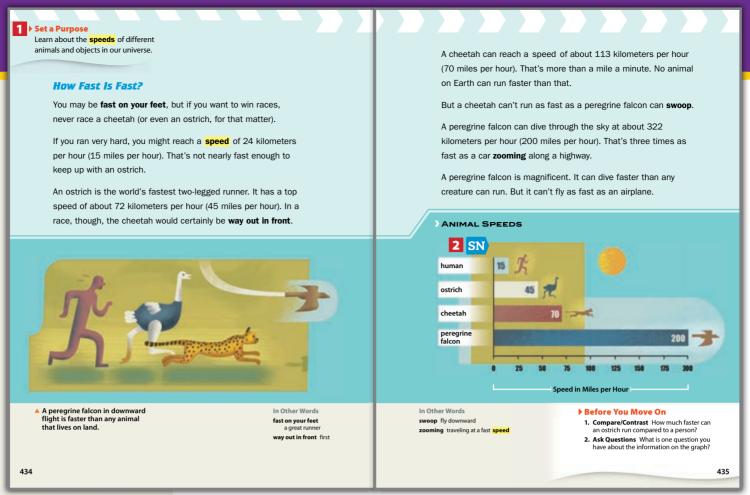
READ INDEPENDENTLY As students read silently, have them take notes to compare and contrast.

Best Practices

Link to Experience Prompt students to make connections with different subject areas:

- How are the graphs you have previewed in this article like **graphs** you have seen in math or science books?
- What are some examples of other fast animals or machines that can move at great **speeds**?

Day 3



Anthology pages 434–435

Fluency

Practice Intonation, Accuracy, Rate As students read, monitor their intonation, accuracy, and rate.

Answers Before You Move On

- Compare/Contrast ✓ According to the bar graph, an ostrich can run 45 miles per hour, and a person can run 15 miles per hour. Therefore, an ostrich can run 30 miles an hour faster than a person.
- **2. Ask Questions** Encourage students to write the questions they have and see if they can find the answers as they read on. Possible response: How do scientists **measure** a peregrine's flight?

Mini Lesson

Interpret Graphs

Explain: Bar **graphs** use bars of different lengths to show and compare number facts. Have volunteers identify the bar graphs on pages 435, 436, and 439.

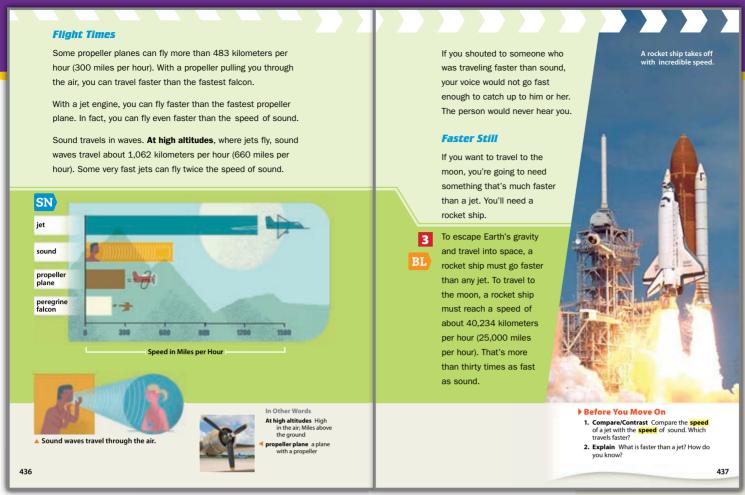
Draw attention to the bar graph on **Student eEdition** page 435. Point out different parts of the bar graph and model how to analyze the information:

- The vertical axis shows what subjects are being compared: different animals.
- The horizontal axis shows what is **measured**: how fast the animals move.
- To see the **speed** of each subject, look at where the end of its bar lines up with the horizontal axis. This **graph** also indicates the **speed** inside each bar.

Ask: How fast does an ostrich run? (45 miles an hour) How do you know? (The number is written at the bar's end, and the bar lines up with the number 45 on the horizontal axis.) Model how to analyze information in the graph to make comparisons: The peregrine falcon can move at 200 miles per hour, so it is faster than a human, ostrich, or cheetah.

Have students scan the text on **Anthology** pages 434–435 and identify places where number facts about each animal's speed appear. Elaborate: *Both the text and the bar* **graph** contain the same number facts. The bar **graph** supports the text by making it easy for you to see how fast each animal is compared to the others.

To check understanding, have partners read another graph from the article, analyze the information, and explain how the graph supports the text.



Anthology pages 436–437

Read and Build Comprehension

- **Set a Purpose** Have students read the introduction at the top of **Anthology** page 434 to establish a purpose for reading this math article.
- **Compare and Contrast** ✓ How does a cheetah's **speed** compare with the **speed** of a human? (The cheetah is much faster.) How is this shown in the **graph**? (The **graph** shows humans at 15 m.p.h. and cheetahs, 70 m.p.h.)
- Draw Conclusions Review the information about jets and rockets on pages 436–437. What can you conclude about the effect of Earth's gravity on a jet? (Possible response: I read that jets aren't fast enough to travel to the moon and that a rocket ship travels faster to escape Earth's gravity. I connect ideas and conclude that a jet doesn't fly fast enough to escape gravity.)

Differentiate

BL Below Level

ISSUE Students have difficulty drawing a conclusion for question 3, above.

STRATEGY Have students list important details about jets and rockets from the text and graph on page 436 and draw lines between details that relate in some way. Remind students to put together these related details to draw a conclusion about the topic.

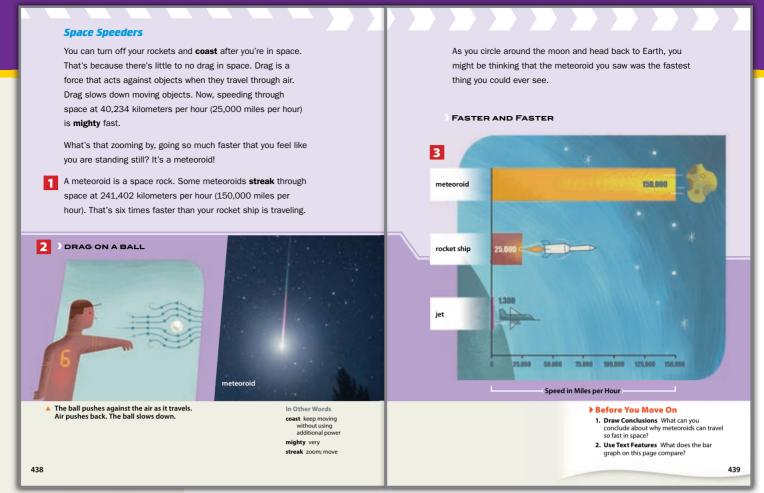
SN Special Needs

ISSUE Students are confused by the different kinds of information shown in the graphs. **STRATEGY** Direct students to explain each type of information on the graph. Use card stock to isolate each feature, including vertical axis labels, horizontal axis labels, bars, and pictures.

Answers Before You Move On

- **1. Compare/Contrast A** jet flies faster than the **speed** of sound.
- 2. Explain Possible response: A rocket is faster than a jet. I know because a rocket travels at 30 times the speed of sound, and a jet travels at twice the speed of sound.

Day 3



Anthology pages 438–439

Read and Build Comprehension

- **1 Compare and Contrast** ✓ How does the **speed** of a meteoroid moving through the air compare with the **speed** of a rocket? (Possible response: Both a meteoroid and a rocket travel quickly, but a meteoroid is much faster. It moves at six times the **speed** of the rocket.)
- **Draw Conclusions ☑** What can you conclude from the information about drag and the illustration of its effect on a baseball? (Possible response: Drag affects all objects, whether as large as a rocket or as small as a baseball.)
- Analyze Graphs What information does the graph provide? (Possible responses: The jet has the slowest speed. The speed of the meteoroid is six times faster than the rocket ship and almost 12 times faster than the jet.)

Answers Before You Move On

- 1. Draw Conclusions ✓ Possible response: I read that there is little drag in space. I also read that drag can slow down moving objects. I connect these ideas and conclude that meteoroids can travel so quickly because there is no drag to slow them down.
- 2. Use Text Features The bar graph on page 439 compares the speeds of a jet, a rocket, and a meteoroid.

Check & Reteach

OBJECTIVE: Explain Text Structure: Compare and Contrast 🌠

Check for accurate responses to compare/contrast comprehension questions.

If students have difficulty, have them list details about the objects being compared, circle the details that show similarities, and underline details that show differences.

OBJECTIVE: Draw Conclusions to Comprehend Text

As students answer the comprehension questions, ensure that they can synthesize details in the text in order to draw conclusions.

If students need help synthesizing details, have them list details from one paragraph. Ask: What do these details tell you about the topic? Have students write one sentence that incorporates the details they found into a conclusion about the topic.

Writing

4 Write About Graphs

REVIEW Remind students that graphs present information using numbers and graphics. Ask: Why are graphs helpful in math articles? (Possible responses: **Graphs** support the information in a text. They also make the information easier to read and compare.)

Display the graph on **Student eEdition** page 435 and ask: What information does this graph show? (Possible response: It shows the speeds of a human, an ostrich, a cheetah, and a peregrine falcon.)

Model how to write a factual statement that compares the animals in the **graph**:

Think Aloud

Write

The bars on this **graph** show that an ostrich runs 45 miles per hour, and a cheetah runs 70 miles per hour.

The cheetah runs 25 miles per hour faster than the ostrich.

For **Writing Routine 2**, see page BP48.

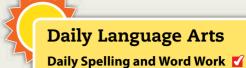
Have students work independently to write factual statements based on the information presented in another bar graph from the math article. Have students add their statements to their Weekly Writing folders.

See Differentiate



falcon, propeller plane, sound, jet, rocket ship, meteoroid. Have students race to

see how quickly they can order the names from slowest to fastest.



Practice page T423k

Daily Grammar 🗹

Show the adverb *nearly* and the adjective fastest on Anthology page 434. Then use page T423n to teach rules about when to use adverbs and adjectives.

Daily Writing Skills 🗹

Model how to integrate information from the graphs on **Anthology** pages 436 and 439: A rocket ship and a meteoroid can both travel faster than the **speed** of sound. Then use page T423p to practice integrating

information from multiple sources.

Differentiate

SN Special Needs

ISSUE Students have difficulty writing a factual statement about information from a graph.

STRATEGY Provide sentence frames for students to complete based on information from their graph: _ travels at ____ miles per hour, while _ travels at _____ miles per hour. ____ travels the fastest.

English Learners

ISSUE Students have difficulty writing with comparative adjectives.

STRATEGY Review that comparative adjectives like fast, faster, and fastest help compare the speed of two or more things. Provide students with language frames to help them write their sentences: A _ fast, but a _____ is faster. A ____ is fastest of all.

Read and Comprehend Math Article

OBJECTIVES

Thematic Connection: Forces and Motion

Explain Text Structure: Compare and Contrast

Draw Conclusions to Comprehend Text

PROGRAM RESOURCES

TECHNOLOGY ONLY

Read with Me: Selection Recordings: MP3 or CD 3 Track 3

My Vocabulary Notebook **Comprehension Coach**

MATERIALS

timer

Power Writing

Have students write as much as they can as well as they can in one minute about what it might feel like to travel in a rocket.

For **Writing Routine 1**, see page BP47.

WARM-UP

Display the Key Words in Vocabulary Practice. Have each student use as many Key Words as possible to write a sentence about building a rocket to travel to Mars. Invite students to share their sentences with the class.

Vocabulary Practice

Share Word Knowledge

REVIEW Have students use the Three-Quarter Book Visual Organizers they made on Day 3. Review what the organizers show.

Group each student with a partner who studied a different Key Word, and have partners follow

Vocabulary Routine 3.

- Have partners take turns reading their organizers.
- Have partners talk about how the pictures and examples show the meanings of the Key Words.
- Have partners create sentences using both Key Words and add the sentences to My Vocabulary Notebook.

For **Vocabulary Routine 3**, see page BP36.

Academic Talk

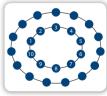
2 Summarize Reading

REVIEW Remind students: When you summarize an article, you briefly tell the most important points.

Write these Key Words: comparison, graph, measure, rate, speed. Have students use a **Fishbowl** to summarize.

- Students on the inside summarize Anthology pages 434-436.
- Students on the outside listen for Key Words and the most important points.
- Groups change positions, and the new inside group summarizes pages 437-439.

For **Fishbowl**, see page BP45.



Fishbowl

Key Words

accelerate average comparison

conclusion distance height

graph measure motion

rate scale solve

speed synthesize

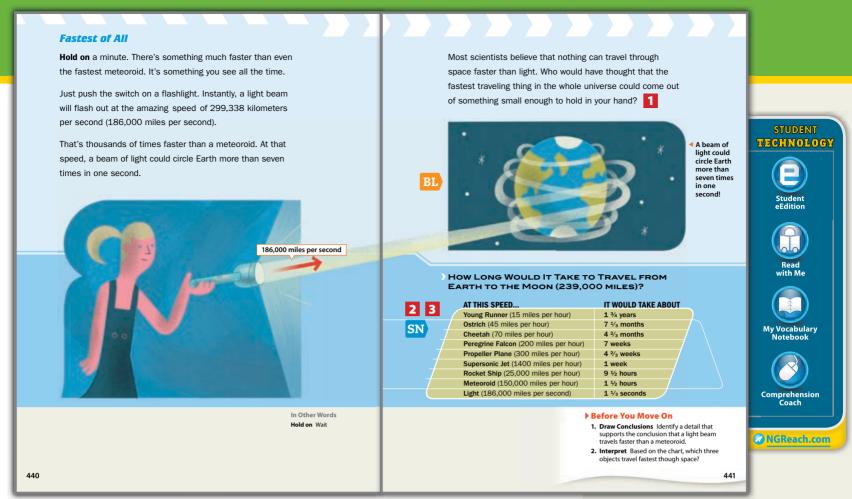
COMMON CORE STANDARDS

Reading CC.4.Rinf.2 Summarize **Interpret Information Presented** CC.4.Rinf.7 Visually and Quantitatively Read with Fluency to Support CC.4.Rfou.4 Comprehension CC.4.Rfou.4.a Read with Purpose and Understanding Read Orally with Expression on CC.4.Rfou.4.b Successive Readings Writing **Draw Evidence from Texts** CC.4.W.9 Write Over Shorter Time for CC.4.W.10 **Specific Purposes** Language and Vocabulary

CC.4.L.6

Acquire and Use Academic and

Domain-Specific Words



Anthology pages 440-441

Reading

3 Read and Build Comprehension

- **Determine Main Idea** What is the most important idea in the section "Fastest of All"? (Light travels the fastest.)
- 2 Analyze Text Features How is the chart on page 441 organized? (The first column names an object and its **speed**. The second shows how long it would take that object to travel from Earth to the moon.)
- **I** Compare and Contrast **I** Compare how long it would take two of the items on the chart to travel from Earth to the moon. (Possible response: A rocket ship could reach the moon much faster than a jet could.)

Differentiate

BI Below Level

ISSUE Students do not understand how the illustrations on **Anthology** pages 440–441 relate.

STRATEGY Have students read aloud the caption and the label. Then have them look for clues that link the images, identify what is pictured in both images (beam of light), use a finger to trace the light's path, and then discuss how the images relate.

AL Above Level

ISSUE Students do not see how the graphs and chart relate to one another.

STRATEGY Prompt students to identify the main topic covered by each graph and the chart and then note whether information about the same objects appears on more than one graph. Ask: What information from the **graphs** does the chart include? (Possible response: The chart summarizes the **speeds** of all the objects.)

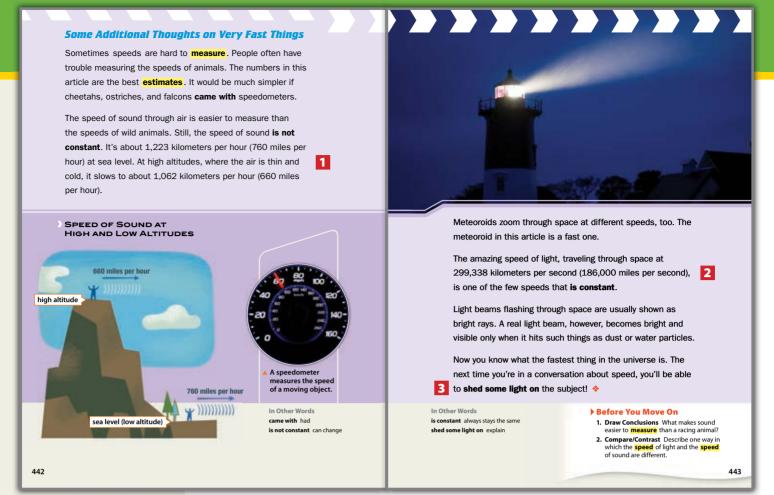
Fluency

Practice Intonation, Accuracy, Rate As students read, monitor their intonation, accuracy,

Answers Before You Move On

- **1. Draw Conclusions 7** Possible responses: Both the text and the chart show that a light beam travels at 186,000 miles per second. That means that a light beam is thousands of times faster than a meteoroid.
- 2. Interpret Based on the chart, a rocket ship, a meteoroid, and light travel fastest through space.

Day 4



Anthology pages 442–443

Best Practices

Encourage Respect Have students repeat what the person before them said before they express their own ideas. For example, "Gracie thinks the author uses the phrase 'shed some light on the subject' only because it means to explain, but I think he is also making a joke because he has been talking about how fast light moves."

Answers Before You Move On

- 1. Draw Conclusions An animal's rate of speed varies as it moves. The speed of sound also has variations, but they are fewer. This makes it easier to measure sound.
- **2. Compare and Contrast** ✓ The **speed** of light is constant. The **speed** of sound is not; it travels at a slower **rate** at high altitudes.

Read and Build Comprehension

- **Draw Conclusions**

 **Based on information in this section, what can you conclude about sound and altitude? (Possible response: Sound cannot travel through thin, cold air as easily as through warmer air. Altitude acts as a drag.)
- 2 Compare and Contrast Compare and contrast the speed of a meteoroid with the speed of a beam of light. (Possible response: The speeds are alike since both travel faster than a jet. The speeds are different because a meteoroid does not travel at a constant rate, but a beam of light does.)
- Analyze Figurative Language Why did the author include the phrase "shed some light on the subject" at the end of page 443? (Possible response: It means "to explain" but is also funny because part of the article is about light.)

Check & Reteach

OBJECTIVE: Explain Text Structure: Compare and Contrast

Check for accurate responses to the compare and contrast questions.

If students have difficulty comparing and contrasting, have them pick one set of details and ask themselves: *How are these details alike? How are they different?*

OBJECTIVE: Draw Conclusions to Comprehend Text

Check for accurate responses to all questions about drawing conclusions.

If students have difficulty, have partners discuss important ideas in the text and think about how the ideas might relate to one another. Provide the following sentence frames: I see ______. I read ______. These ideas go together because _____. I conclude _____.

Writing

4 Write Reasons

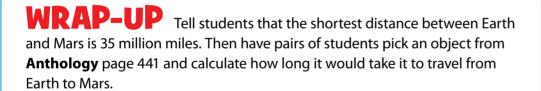
REVIEW Ask: What kind of information can a **graph** show? (number facts) Explain: You can use **graphs** to present information about number facts in a math article. Model how to write reasons for including graphs in a math article.

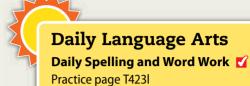
Think Aloud	Write
First, I will write about how a bar graph can support the text.	A bar graph helps a writer show number facts in a visual way.
Then I will write about how readers can use a bar graph .	Readers can look at the bars in a graph to compare and contrast information.

For **Writing Routine 2**, see page BP48.

Have students work independently to write reasons why writers might include text features like graphs or charts in a math article. Have students add their reasons to their Weekly Writing folders.

See **Differentiate**





Daily Grammar

Point out adjectives and adverbs on **Anthology** page 443. Then use page T423n to practice adjectives and adverbs.

Daily Writing Skills 🗹 Briefly point out that the visuals on **Anthology** pages 440–443 help readers understand the main ideas in the article. Then use page T423p to practice identifying big concepts.

Differentiate

EL English Learners

ISSUE Students lack the sentence skills necessary for writing a reason.

STRATEGY Provide language frames: A can tell/show/explain _____. It helps a reader

SN Special Needs

ISSUE Students cannot integrate information to identify and write about a reason.

STRATEGY Break the process into small steps:

- Have students identify some things that a graphic organizer can do.
- Have students think about and discuss what looking at a graphic organizer can help a reader understand or do better.
- Use information from the discussion to help students write reasons why the writer of a math article might include graphs.

5 Review and Apply

OBJECTIVES

Thematic Connection: Forces and Motion Explain Text Structure: Compare and Contrast Read with Fluency

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Test-Taking Strategy Practice: Practice Master PM7.5 Comparison Chart: Practice Master PM7.6 Fluency: Practice Master PM7.7

TECHNOLOGY ONLY

Online Vocabulary Games Comprehension Coach

Read with Me: Fluency Models: MP3 or CD 1 Track 13

MATERIALS

2 tennis balls • stopwatch or timer • self-stick notes

Power Writing

Have students write as much as they can as well as they can in one minute about the word motion.

For **Writing Routine 1**, see page BP47.

COMMON CORE STANDARDS

Reading

CC.4.Rinf.1 Refer to Details and Examples When Explaining Text CC.4.Rinf.10 Read and Comprehend Informational Texts Read Orally with Expression on CC.4.Rfou.4.b

Successive Readings

Writing

Write Over Shorter Time for **Specific Purposes**

CC.4.W.10

Language and Vocabulary

Acquire and Use Academic and Domain-Specific Words

CC.4.L.6

WARM-UP

Remind students that they have read a math article about **speed** and movement this week. Have partners hold a pencil and a small slip of paper at shoulder height. On the count of three, partners drop their objects and observe what happens. Circulate and help students reach the conclusion that the pencil drops straight down and hits the ground first because it is heavier than the paper.

Vocabulary Review

Apply Word Knowledge

Write: **comparison**, **synthesize**, **conclusion**, **graph**. Call students' attention to the other Key Words on **Student eEdition** page 444. Then have students apply their knowledge of the Key Words to play a game called "Stump the Expert." Explain the instructions:

Kev Words accelerate average comparison conclusion distance graph height measure motion rate scale solve speed synthesize

- I will choose a student to be the "Expert."
- Another student, the "Stumper," will say a definition of a Key Word, and the Expert must guess what the word is.
- If the Expert is correct, another Stumper may try to challenge the Expert.

Have students begin the game.

• Designate one student to be the Expert and one student to be the Stumper.

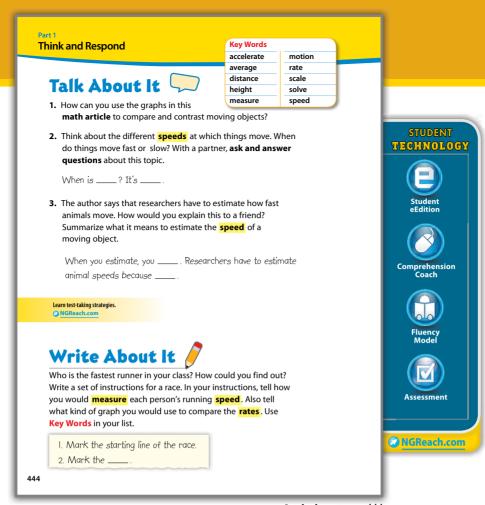
What word means "movement"?

- The Stumper challenges the Expert.
- The Expert has ten seconds to think of each term. If the Expert responds correctly, the next Stumper offers a challenge.
- The game continues until the Expert is stumped or answers three challenges. After three correct answers, another student becomes the Expert.

For **More Vocabulary Routines**, see pages BP41–BP43.

For additional practice, have students play the **Online Vocabulary Games** in pairs or individually.





Anthology page 444

Academic Talk

2 Talk About It Anthology page 444

Have partners use Key Words as they discuss the **Talk About It** questions. Remind students to use either formal or informal language that is appropriate to the situation, such as by speaking formally when addressing the class as a whole.

Then use the test-taking strategy lesson from **NGReach.com** and **Practice Master PM7.5** to ask more questions about the selection.

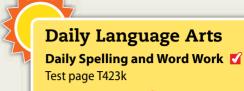
Writing

3 Write About It Anthology page 444

Ask the class who the highest jumper in the class might be. Discuss: *What can we do to measure the jumps?* Then read aloud the directions on **Anthology** page 444. Explain that the instructions they write for the race must be clear and precise enough for the readers to follow:

- Notice how even the smallest steps are explained. Instead of just saying, "Set up a race," the example explains exactly how to set it up.
- You can use the sentence frame to begin your instructions.

Encourage students to use Key Words as they write. Use a stopwatch to measure each student's speed. Have students add their instructions to their Weekly Writing folders.



Daily Grammar 🌠

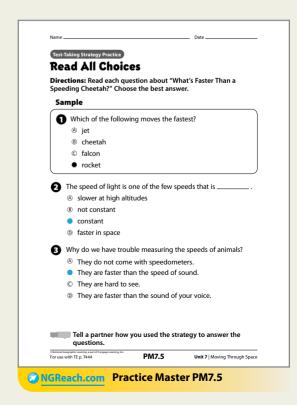
Point out the word *instantly* on **Anthology** page 440. Then use page T423n to review and assess using adverbs.

Daily Writing Skills 🗹

Point out the graph, photos, and captions on **Anthology** pages 436–437. Then use page T423p to assess students' ability to integrate information from multiple sources.

Answers Talk About It

- Math Article Possible response: The graphs make it easy to see the similarities and differences of the speeds.
- 2. Ask and Answer Questions Possible response: When is an animal moving fast? It is moving fast while trying to catch its prey or escape from a predator.
- **3. Summarize** Possible responses: When you estimate, you use information you know in order to make a calculation. Researchers have to estimate animal **speeds** because it is hard to measure those **speeds**. They do not always move at the same **speed**.



Review and Apply

Differentiate

SN Special Needs

ISSUE Students have difficulty finding information for the chart.

STRATEGY Point out the sentences where the information is found. Have students read each sentence aloud. Then ask them forced-answer questions: When the peregrine falcon dives in the sky, is it running or flying? (flying) What numbers tell us how fast it flies? (322 km/200 miles per hour)

BL Below Level

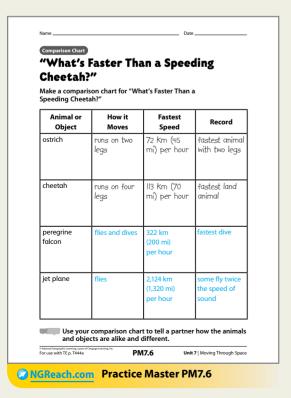
ISSUE Students can identify differences but have difficulty seeing similarities.

STRATEGY Help students list characteristics of the two things being compared. Point out and discuss the ones that are similar.

AL Above Level

ISSUE Students are ready to offer comparison points that are not on the Practice Master.

STRATEGY Have students create additional columns to their charts to illustrate their new comparison points.



Comprehension

4 Compare and Contrast **✓** Anthology page 445

REVIEW Display **Student eEdition** page 445. Have volunteers read aloud the instructions and the sample comparison chart. Point out the labels, and explain: The first column lists the things being compared. The headings of the other columns tell what features are being compared.

Review **Anthology** pages 434–436. Model how to add to column 2 of the chart: I read that peregrine falcons swoop when they fly. So I will write flies and dives in the row that is labeled peregrine falcon.

Have partners work together to complete **Practice Master PM7.6** and discuss the comparisons listed on their chart. Encourage them to use Key Words in their discussions. As you circulate, use the questions below to guide students.

See Differentiate

Characteristic	Guiding Questions
Movement	 Which two animals or objects move similarly? (ostrich and cheetah; peregrine falcon and jet plane) What makes the movement similar? (Ostriches and cheetahs both move their legs to move quickly across the ground. Peregrine falcons and jet planes both use air to soar across the sky.) How do the types of movements compare? (Running uses legs to stride across the ground. Flying requires wings to move through the air.)
Speed	 What can you do to better understand the speed at which ostriches and cheetahs can run? (Possible response: Measure or research how many miles a person can run in an hour.)
Record	 How does information in the Records column help you compare the speeds of the animals or objects? (Possible response: They help me see the speeds from a greater perspective, such as a comparison with everything that moves on two legs.)

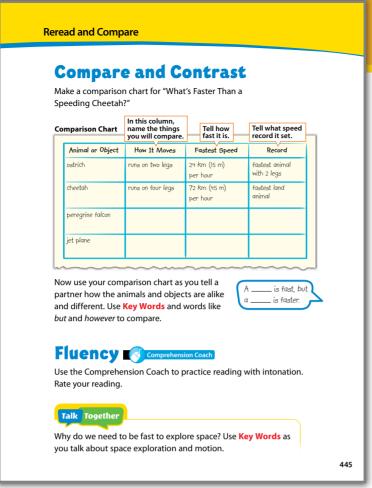
Check & Reteach

OBJECTIVE: Explain Text Structure: Compare and Contrast

Have students share their comparisons after they complete their charts.

If students become confused or have difficulty organizing the details on the chart, guide them to focus on a single characteristic at a time. Use sentence frames to help them make comparisons, for example:

- Both ostriches and cheetahs _______
- The ostrich ______, but the cheetah _____



Anthology page 445

5 Fluency ✓ **Anthology** page 445

Have students read aloud the passage on **Practice Master PM7.7** or use the **Comprehension Coach** to practice fluency.

Check & Reteach

OBJECTIVE: Read with Fluency

Monitor students' oral reading.

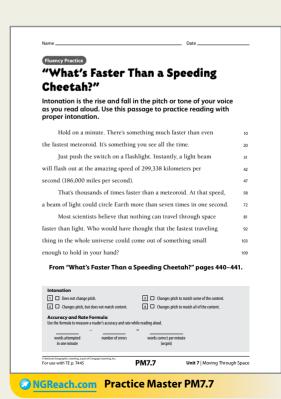
If students need more fluency practice, have them read along with the **Fluency Models**.

6 Talk Together Anthology page 445

Have small groups review the "Faster Still" section on **Anthology** page 437 and the chart on page 439. Display the Key Words so that students can refer to them as they discuss space travel.

WRAP-UP Ask students to think about what it would take to travel to Jupiter. What sorts of obstacles would they likely have to overcome? Have students share their ideas with a partner.





Week 1 Research Project

OBJECTIVES

Thematic Connection: Forces and Motion

Research Animal Mobility

☑ Identify Big Concepts and Integrate Information from Multiple Sources

Add Audio Recordings to Presentations

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Research Rubric: Assessment Master A7.42

TECHNOLOGY ONLY

Project Checklist: eVisual 7.5

MATERIALS

index cards • reference materials about animals

SUGGESTED PACING

DAY 1 Plan

DAY 2 Research

DAY 3 Research

DAY 4 Organize

DAY 5 Present

COMMON CORE STANDARDS

Reading for Information

Integrate Information From Two Texts	CC.4.Rinf.9
Writing	
Write Informative/Explanatory Text	CC.4.W.2
to Examine a Topic and Convey	
Information	
Include Illustrations and Multimedia	CC.4.W.2.a
Introduce a Topic: Group Related	CC 4 W 2 a

Introduce a Topic; Group Related
Information in Paragraphs and
Sections; Include Formatting,
Illustrations, and Multimedia

Develop the Topic CC.4.W.2.b
Provide a Concluding Statement CC.4.W.2.e
or Section
Conduct Research CC.4.W.7

Recall Relevant Information; Gather CC.4.W.8
Information; Take Notes; and
Categorize Evidence

Speaking and Listening

Add Audio Recordings to Presentations CC.4.SL.5

Research Speedy Animals

Display and read aloud the prompt.

You have been chosen to go on a National Geographic safari to study animal speed and movement! Choose an animal to research. Then gather information about the animal from three or more different sources. Use what you find to write a research report. Add some digital images and audiovisuals to your report and then present it to the class.

Plan

Choose a Topic

Guide discussion to unpack the prompt and determine the Role, Audience, and Form for the RAFT:

Role: Amateur scientist

Audience: Class

Form: Written research report including digital and audiovisual effects

REVIEW Remind students: Good research topics are neither too broad nor too narrow. The topic "world's fastest animals" is too broad. "World's fastest race horse" is too narrow.

Encourage students to review the animals in "What's Faster Than a Speeding Cheetah?" (see **Anthology** pages 432–435). Then have the class brainstorm other animals they'd like to write about. Start the conversation: I read an article on the Internet about African lions. They're pretty fast. I think the movement of lions would be an interesting topic to research and write about.

Then have students choose an animal to research and complete a RAFT.

Develop Research Questions

REVIEW Remind students: To guide your research, write questions you have about an animal and its speed. Have students write three questions on three separate index cards. Encourage students to focus their topics as much as possible by asking very specific questions.

How does the way a lion runs or moves help it to survive?

Research

Gather Information

REVIEW Have students locate three or more sources (print, digital, and audiovisual). As they read the sources and find important details related to one of their guiding questions, have them take notes on the back of the corresponding question card. They may need two or more index cards for each question, depending upon the number of respective sources. Remind students to include the source where they find each answer.

See **Differentiate**

Organize

Arrange Information

REVIEW Have students arrange the notes they have taken in sets by guiding question. They can then think about a main idea for each set that pulls all of the important details together. Once they state the main ideas and group important details, they can use the combined information to write their reports (see page 4230). Display and read eVisual 7.5.



Project Checklist

- Locate three or more sources of information to answer my questions.
- · Include print, digital, and audiovisual sources.
- Take notes from each source and cite the source.
- Group cards and notes by question and write the report.



NGReach.com Project Checklist: eVisual 7.5



Draft Ideas

As students write their research reports, have them think about places where they can incorporate their digital images and audiovisuals. For example, students might want to download a photograph or other visual of their animal to introduce their topic. Then they can add video or DVD clips and sound recordings as part of their reports.



Present

Practice Speaking Skills

Explain to students that, when giving a presentation that includes digital images and audiovisuals, they should use these to support and enhance the information in their reports. Read the following sentence, first without any sound, and then again followed by an audio clip of a lion's roar: According to the National Geographic Web site, an adult lion's roar can be heard up to five miles (eight kilometers) away. Ask: Which reading helps you better understand how loud a lion's roar can be? (the one with the audio recording because I could hear it)

Share with Others

Have students take turns presenting their research reports to the class. Remind each student to cue their audio recordings and audiovisuals ahead of time.

Use the **Research Rubric** to evaluate students' presentations.

Differentiate

Below Level

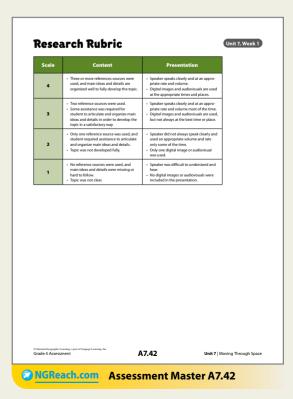
ISSUE Students are having trouble grouping their cards and the information they contain.

STRATEGY Have students color code the note cards. They might place a different color circle sticker on cards that go with each of their questions, or they could use a different color marker to draw circles on cards that go with each of their questions.

AL Above Level

ISSUE Students' notes contain too much information, some of which is not relevant to their questions or main ideas.

STRATEGY Have students re-examine their questions and answers and get rid of information they do not need. Alternatively, students could create new questions (and main ideas) for the information that did not belong elsewhere.



Week 1 Assessment & Reteaching

= TESTED

Assess

OBJECTIVES

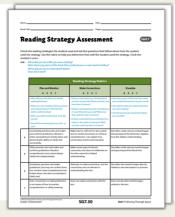
Reading

- **Explain Text Structure: Compare** and Contrast
- Draw Conclusions to Comprehend Literature

ASSESSMENTS







Reading Comprehension Test A7.4–A7.5

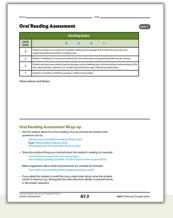
Reading Strategy Assessment SG7.30–SG7.31

Fluency

- **☑** Intonation
- Accuracy and Rate







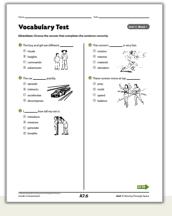
Oral Reading Assessment A7.1–A7.3

A/.I-A/.3

Use these passages throughout Unit 7. Work with Below Level students this week.

Vocabulary and Spelling

- **☑** Use Domain-Specific Words
- **☑** Use Academic Words
- Spell Words with Hard and Soft c. a
- ✓ Use Commonly Misspelled Words Correctly





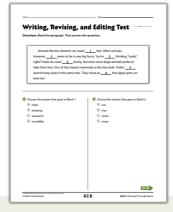


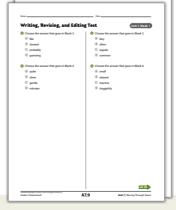
Vocabulary Test A7.6–A7.7

Spelling Pretest/ Spelling Test T423k

Grammar and Writing

- ☑ Use Adverbs and Adjectives
- Identify Big Concepts and Integrate Information from Multiple Sources





	Content	Presentation	
4	There are more references sources were used, and main streat and details are organized used to fully develop the topic.	Speaker operate clearly and at an appen- priate rate and solume. Digital tenages and audiovisuals are used at the appengrate times and places.	
3	Two reference scrucies were used. Some additional was required for disdered to articulate and organize main lates and details in conden to develop the topic in a satisfactory way.	Speaker speaks clearly and at an appropriate rate and solume most of the time. Digital images and audiorisads are used, but not always at the best time or place.	
2	Only one reference counterway used, and disdered required postdance to articulate and organize main bless and details. Topic was not developed fully.	Speaker did not always speak cheely and used an appropriate volume and size only same of the time. Only one-digital image or audionousil wis used.	
1	No enference source come used, and main sleer, and details were resisting or hand to follow. Topic was not clear.	Speaker was difficult to understand and hour. No digital images or audionicules were included in the presentation.	

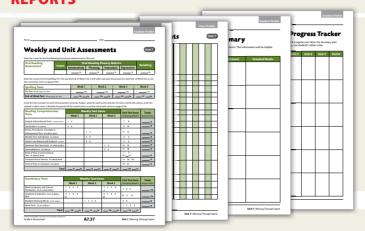
Writing, Revising, and Editing Test A7.8-A7.10

Research Project Rubric A7.42





REPORTS



Reteach and Practice

RESOURCES AND ROUTINES

Reading

RETEACH

Compare and Contrast: Reteaching Master RT7.1 Draw Conclusions: Reteaching Master RT7.2

ADDITIONAL PRACTICE

PRINT & ONLINE

Report Forms

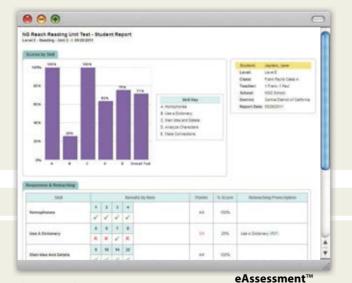
Student Profile: Weekly and Unit Assessments A7.37-A7.38 Class Profile: Weekly and Unit Assessments A7.39 Student Profile: Strengths and Needs A7.40 Student Profile: Oral Reading Progress Tracker A1.3

Fluency

RETEACH

Fluency Routines, page BP33

ADDITIONAL PRACTICE



Vocabulary and Spelling

RETEACH

Vocabulary Routine 6, page BP40 Spelling and Word Work Routine, page BP52

ADDITIONAL PRACTICE

Daily Spelling Practice, pages T423k-T423l

Grammar and Writing

RETEACH

Adjectives: Anthology Handbook, page 602 Adverbs: Anthology Handbook, page 609 Writing: Reteaching Writing Routine, page BP51

ADDITIONAL PRACTICE

More Grammar Practice PM7.8

Daily Writing Skills Practice, pages T423o-T423p

ONLINE ONLY

Automated Reports

Student Profile: Weekly and Unit Tests Class Profile: Weekly and Unit Tests **Standards Summary Report**

Week 2 Planner



= TESTED Day 2 Day 1 WHOLE GROUP TIME **Listen and Comprehend Read and Comprehend** CC.4.SL.1 Academic Talk CC.4.Rinf.1 **Academic Talk Speaking and Listening** Discuss the Big Question T445o Preview and Predict T446c 5-10 minutes Daily Spelling and Word Work CC.4.Rfou.3; CC.4.Rfou.3.a; **Daily Spelling and Word Work** CC.4.Rfou.3; **Language and Vocabulary** Words with oo; Words with CC.4.Rfou.3.a; CC.4.L.2.d CC.4.L.1.g; CC.4.L.2; Practice T445i Silent Consonants T445i CC.4.L.2.d 20 minutes **Daily Grammar** CC.4.L.1; CC.4.L.3 **Daily Grammar** CC.4.L.1; CC.4.L.3 Comparison Adverbs T445m More Comparison Adverbs T445m **Vocabulary Strategy** CC.4.L.4 Vocabulary Strategy CC.4.L.4 Multiple-Meaning Words T4450 More Multiple-Meaning Words T446c Reading CC.4.Rinf.1; Reading Reading Read Aloud: Scientific Text T446a Read a Science CC.4.Rfou.4.a Report: Read and Anthology 20-40 minutes **Build Comprehension** T447-T450 Comprehension CC.4.Rinf.1; CC.4.Rinf.3; Comprehension CC.4.Rinf.1; CC.4.Rinf.8: Explain Concepts in Text T446a CC.4.SL.1.d Explain Concepts Concepts in Text CC.4.Rfou.4.a T447, T450 Draw Conclusions to Comprehend Text T447, T450 Verify Facts T447 CC.4.Rfou.4 Fluency CC.4.Rfou.4 **Fluency** Model Intonation T446a Practice Intonation, Accuracy, and Rate T447 Power Writing T446c Power Writing T4450 CC.4.W.9.b Writing **Daily Writing Skills Daily Writing Skills** CC.4.L.1; CC.4.L.1.f CC.4.L.1; CC.4.L.1.f Break Up Long Sentences T445m Break Up Long Sentences T445m 15-45 minutes Writing CC.4.W.9: Writing CC.4.W.9 Write About Ideas in Scientific Texts T446b CC.4.W.9.b Write a Response T451 **Writing Project: Informational Essay** CC.4.W.2; Writing Project: Informational Essay CC.4.W.2; Study a Model T453i CC.4.W.2.a, b; CC.4.W.5, 10; Prewrite T453j CC.4.W.2.a, b; CC.4.W.5, 10; CC.4.L.1; CC.4.L.1.f; CC.4.L.3 CC.4.L.1; CC.4.L.1.f; CC.4.L.3

SMALL GROUP READING TIME

Fiction & Nonfiction

20 minutes

Read Science Articles

Vocabulary CC.4.L.6 Learn Science Vocabulary SG11

Reading CC.4.Rinf.1; Use Details and CC.4.Rinf.10 Examples to

Explain Text SG10

Build Comprehension SG11

SATIONAL SECTION AND SECTION ASSESSMENT OF S

Read Nonfiction Books

Vocabulary Expand Vocabulary Through Wide Reading

Through Wide Reading
SG12–SG13

Reading CC.4.Rinf.1, 2, 3

Read and Integrate CC.4.Rini.1, 2, 3;
Read and Integrate CC.4.Rini.10;
Ideas SG14–SG15 CC.4.SL.1.a
Informational Texts SG12–SG13

To Draw Conclusions SG14–SG15

✓Explain Concepts in Texts SG14–SG15



LEARNING STATION TIME



20 minutes



 Speaking and Listening T445g
 CC.4.SL.1.c; CC.4.SL.2

 Language and Vocabulary
 T445g
 CC.4.L.6

 Writing T445g
 CC.4.W.1; CC.4.W.1.a; CC.4.W.3; CC.4.W.3.a

 Cross-Curricular
 T445h
 CC.4.SL.1.d; CC.4.SL.4

 Reading and Intervention
 T445h, SG68
 CC.4.Rinf.9;

 CC.4.Rinf.10; CC.4.Rfou.3; CC.4.Rfou.3.a; CC.4.Rfou.4.cc
 CC.4.Rfou.4.cc

BIG Question What does it take to explore space?

Day 3		Day 4	Day 5
Read and Comprehend		Read and Comprehend	Review and Apply
Academic Talk Talk Together T452	CC.4.SL.4	Academic Talk Discuss Drawing Conclusions T453d CC.4.Rinf.8	Academic Talk CC.4.SL.1.a Relate Readings to the Big Question T453h
_ ,	4.L.1; CC.4.L.3	Daily Spelling and Word Work ☐ Practice T445j Daily Grammar ☐ Grammar and Writing T445n CC.4.L.2; CC.4.L.2; CC.4.L.3	Daily Grammar CC.4.L.1; CC.4.L.3 ✓ Review T445n
Vocabulary Review ✓ Science and Academic Vocabulary T451a	CC.4.L.6	Vocabulary Practice CC.4.Rinf.4; CC.4.L.4 ☑ Multiple-Meaning Words T453c	Vocabulary Practice CC.4.Rinf.4; CC.4.L.4 ✓ Multiple-Meaning Words T453e
Comprehension CC.4.Rinf.1; ✓ Compare Facts and CC.4.SL.4 Opinions to	The second secon	Reading Read an Astronaut Blog T453a–T453b CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.8 Explain Uses of Reasons and Evidence T453a–T453b	Comprehension CC.4.Rinf.2; Compare Support CC.4.Rinf.8; for Main Ideas T453g CC.4.SL.1.a
Fluency ✓ Practice Intonation T452		Fluency CC.4.Rfou.4 ✓ Model and Practice Intonation T453b	
Writing CC. Writing T445n Write to Reinforce Grammar T453 Writing Project: Informational Essay Draft T453j CC.4.W.2.a, b; CC.4.W.5	.L.1; CC.4.L.1.f 4.L.1; CC.4.L.3 CC.4.W.2;	Power Writing T453a CC.4.W.10 Daily Writing Skills CC.4.L.1; CC.4.L.1.f Break Up Long Sentences T445n Writing CC.4.W.9 Write About Reasons and Evidence T453d Writing Project: Informational Essay CC.4.W.2; Revise; Edit and Proofread CC.4.W.2.a, b; CC.4.W.5, 10; T453k−T453l CC.4.L.1; CC.4.L.1.f; CC.4.L.3	Power Writing T453e CC.4.W.10 Daily Writing Skills CC.4.L.1; CC.4.L.1.f Break Up Long Sentences T445n Writing CC.4.W.10 Write and Support Opinions T453g Writing Project: Informational Essay CC.4.W.2; Publish and Present T453l CC.4.W.2.a, b; CC.4.W.5, 10; CC.4.L.1; CC.4.L.1.f; CC.4.L.3
Read Nonfiction Books		Read Nonfiction Books	Read Nonfiction Books
Vocabulary Expand Vocabulary Through Wide Reading SG12–SG13 Reading CC.4.Rinf.1, 2, 3; Read and Integrate CC.4.Rinf.10; Ideas SG14–SG15 CC.4.SL.1.a Informational Texts SG12–SG13 ✓ Draw Conclusions SG14–SG15	State Stars	Vocabulary Expand Vocabulary Through Wide Reading SG12–SG13 Reading CC.4.Rinf.1, 2, 3; Read and Integrate CC.4.Rinf.10; Ideas SG14–SG15 CC.4.SL.1.a Informational Texts SG12–SG13	Vocabulary Expand Vocabulary Through Wide Reading SG12–SG13 Reading Connect Across Texts SG15 CC.4.Rinf.1; Choose a Writing Option CC.4.W.10 CC.4.W.10 CC.4.W.10



Explain Concepts in Texts

SG14-SG15

ASSESSMENT & RETEACHING

Assessment and Reteaching T453m-T453n

☑Draw Conclusions SG14–SG15

☑Explain Concepts in Texts

SG14-SG15

Reading Comprehension Test A7.11–A7.12 CC.4.Rinf.3; CC.4.Rinf.10

Reading Strategy Assessment SG57–SG58 CC.4.Rlit.10

☑ Oral Reading Assessment A7.1–A7.3 CC.4.Rfou.4.a

✓ Vocabulary Test A7.13 CC.4Rlit.4; CC.4.Rinf.4; CC.4.L.6 Spelling Test: Words with *oo;* Words CC.4.Rfou.3; with Silent Consonants T445i CC.4.Rfou.3.a; CC.4.L.1.g; CC.4.L.2; CC.4.L.2.d

Writing, Revising, and Editing Test CC.4.W.10; CC.4.L.1; A7.14-A7.15

Reteaching Masters RT7.3-RT7.6

Choose a Writing Option

SG14-SG15

CC.4.L.3

Week 2 Learning Stations

Speaking and Listening

Option 1: When? Where?



PROGRAM RESOURCES

Language and Literacy Teamwork Activities: Card 42

Digital Library: Language Builder Picture Cards E79-E83

Pose and Respond to Questions

CC.4.SL.1.c

Option 2: Learn About Space XX



Have partners paraphrase information from a video about space. To view the video, have students go to Resources > Unit 7 > Learning Stations > Week 2 > Solar System 101.

- As partners watch, Partner 1 pauses the video and paraphrases an important fact or detail from the beginning.
- Partner 2 resumes play and then pauses the video and paraphrases the next major fact.
- · Partners continue until video ends.

Paraphrase Visual and Oral Information

Language and Vocabulary

Key Words

accelerate average comparison conclusion distance height measure motion rate scale solve speed synthesize

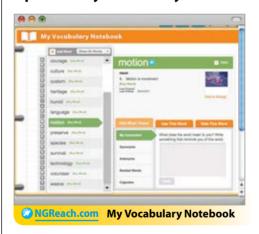
Option 1: Vocabulary Games X



Acquire and Use Conversational, General Academic, and Domain-Specific Words

CC.4.L.6

Option 2: My Vocabulary Notebook 🕺



Have students expand their word knowledge.

- Under Add More Information > Use This Word > Restate the Definition, have students use their own words to restate definitions of the Key Words.
- Under Add More Information > Use This Word > Write a Sentence, have students write sentences using Key Words and words with silent consonants.

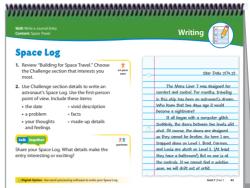
Acquire and Use Conversational, General Academic, and Domain-Specific Words

CC.4.L.6

Writing

Option 1: Space Log 🕺





PROGRAM RESOURCES

Language and Literacy Teamwork Activities: Card 43

Write Narratives, Using Descriptive **Details and Event Sequences** Establish a Situation

CC.4.W.3 CC.4.W.3.a

Option 2: Describe a Planet X



Have students respond to this prompt:

Imagine you could travel to any planet at all, real or imaginary. Which planet would you choose? Describe what that planet is like, and tell what you might expect to find there. Explain why, in your opinion, this planet is the best one to visit.

Write Opinions on Topics Introduce the Topic, State an Opinion, and Create a Structure

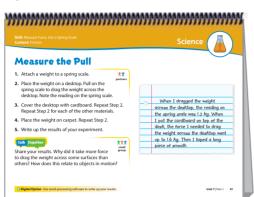
CC.4.W.1 CC.4.W.1.a





Cross-Curricular

Option 1: Measure the Pull



PROGRAM RESOURCES & MATERIALS

Cross-Curricular Teamwork Activities: Card 41

different-sized classroom objects • string • 1-kg weight • spring scale • cardboard • carpet or coarse cloth

CC.4.SL.4 Recount an Experience

Option 2: Study Human Habitats



MATERIALS

colored markers

Have student pairs design a space habitat.

- Have students brainstorm and discuss the type of home people would need if they lived in space.
- Then have students design, draw, and label a diagram of their "space habitat."
- Have pairs present their designs to the class and explain why their habitat would be a good place to live in space.

Explain Ideas and Understanding CC.4.SL.1.d

Reading

Option 1: Read About Extreme 🔭 **Human Habitats**

One of the most extreme places to live is inside a submarine!

MATERIALS

encyclopedia • library books • online resources Have students use multiple library and online resources to research an extreme human habitat.

such as a submarine or Antarctic station.

Have students use at least two sources to prepare oral presentations on the extreme habitat they read about. Students then present their findings to the class.

Integrate Information from Two Texts CC.4.Rinf.9

Option 2: Author Study X

Anastasia Suen

Facts	Opinions
	Facts

books by Anastasia Suen, such as Doctors Without Borders, Man on the Moon, The Story of Soccer, and Wired

As students read multiple books by Anastasia Suen over the week, have them develop a fact and opinion chart.

Then have partners use their charts to discuss the author's use of facts and opinions in each book. Have students explain how they know whether a statement is a fact or an opinion.

Students may wish to select from additional recommended books. See Independent Reading on page SG68.

Read and Comprehend Informational Texts CC.4.Rinf.10

Intervention

Option 1: Phonics Games 🔭



CC.4.Rfou.3 Apply Phonics and Word Analysis Skills Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words CC.4.Rfou.3.a

For Reteaching Masters, see pages RT7.3-RT7.6.

Additional Resources

Reach into Phonics ****



Lessons 102, 103, and 104

Use Context to Confirm or Self-Correct Word Recognition and Understanding

CC.4.Rfou.4.c

ESL Kit XXX



ESL Teacher's Edition pages T446a-T454h

Week 2 Daily Spelling & Word Work

OBJECTIVES

Thematic Connection: Moon, Space, and Stars

Spell Words with oo: book, good; Silent Consonants

Use Commonly Misspelled Words Correctly

SUGGESTED PACING

DAY 1 Pretest

DAY 2-4 **Daily Practice Options**

DAY 5

Spelling Pretest

Spelling Test

Day 5

XXX

Spelling Words

Use these words and sentences for the weekly Spelling Pretest and Spelling Test.

Words with oo	; Silent Consonants
1. acknowledge	To acknowledge that I made a mistake on my science report, I admitted it and then corrected it.
2. align	Those stars <i>align</i> to form a straight line.
3. bombs	I wonder if stars can burst in space like exploding bombs .
4. climbing	The astronaut is <i>climbing</i> down a ladder to step onto the moon.
5. crooked	I bent the ring around my model of Saturn, so now it looks <i>crooked</i> .
6. design	It wasn't easy to plan and <i>design</i> a space model.
7. fasten	We fasten objects inside the spacecraft so they don't float away.
8. gnash	In the science fiction story, angry little space creatures grind and <i>gnash</i> their metal teeth.
9. handbook	The spaceship kit includes a handbook of instructions.
10. know-how	They have the skill and know-how to build a space shuttle.
11. numbness	Can you feel things in space, or do you only experience <i>numbness</i> ?
12. outlook	I tend to be cheerful and look at all that's great about space exploration, because I have a positive outlook .
13. withstood	The outside of the rocket was built so well that it withstood the effects of very high heat on take-off.
14. wrathful	In myths about the planets, some characters are peaceful, but others are angry and wrathful .
15. wreckage	When our paper rocket fell apart, the wreckage fell here and there like crumpled pieces of litter.
Watch-Out Wo	ords

Is this a **recent** article about the launch, or is it out of date?

Do some astronauts **resent** not getting to go to space?

They did a complete, **thorough** check of the shuttle.

The astronauts had to go **through** many tests.

Vowel oo in Book

Day 2



Option 1

MATERIALS

index cards, 15 per pair of students • colored pencils

Teach

Display the word *crooked*, circle *oo*, and pronounce the word. Explain: The letters oo can make the vowel sound you hear in book. Say the words stood, prowl, look, book, hook, hoist. Have students repeat the words and raise their hands if they hear the same vowel sound as in book.

Prepare

- · Assign each partner seven or eight of the first 15 spelling words, and have them draw a simple picture for each word, one picture per card.
- Have students write the word on the back of the card and underline any words that have the oo sound as in book.

Play a Game

- Have students take turns holding up a picture from the pile.
- Have the partner guess the word it represents and then spell it. If the word is spelled correctly, students write a checkmark on the card.
- Play continues until each partner has correctly spelled each word.

Apply Phonics and Word Analysis Skills	CC.4.Rfou.3
Use Letter-Sound Correspondences, Syllabication Patterns, and	
Morphology to Read Multisyllabic Words	CC.4.Rfou.3.a
Spell Grade-Appropriate Words	CC.4.L.2.d

Context Pictures

Day 2



Option 2

MATERIALS

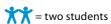
print or online dictionaries • colored pencils

Make a Drawing

- · Have each student look up crooked, handbook, outlook, and withstood in a print or online dictionary.
- Tell students to check the spelling and pronunciation of each word and then write each word and one definition for the word.
- · Have students draw silly pictures and use the words in captions.
- Suggest that students draw pictures of subjects whose names have the sound of oo in book, such as football, cook, and firewood.
- Have students underline the spelling words in their captions.

Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words **Consult References**

CC.4.Rfou.3.a CC.4.L.2.d





A cook with a crooked hat

withstood the heat from the oven.

16. recent

17. resent

18. thorough

19. through



Silent Consonants



Option 1

MATERIALS

index cards, 13 per pair of students • highlighters

Teach

Display design, underline the q, and pronounce the word. Explain: Some words have silent letters. For example, the consonant q is silent in design. Help students identify the silent consonants in other spelling words.

Prepare

Have pairs of students collaborate to make a flash card for each of these words: acknowledge, align, bombs, climbing, design, fasten, gnash, knowhow, numbness, wrathful, wreckage, thorough, through.

Play a Game

- Tell Partner 1 to flash a card, and have Partner 2 identify the silent consonant
- Then have Partner 1 hide the card and read it for Partner 2 to spell.
- After spelling each word, partners switch roles to repeat the process.
- · Students get one point for identifying the silent consonant and another point for correctly spelling the word.
- After the game, have partners highlight the silent letter in each word.

Apply Phonics and Word Analysis Skills CC.4.Rfou.3 Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words CC.4.Rfou.3.a

Watch-Out Pairs

Day 3



Option 2

MATERIALS

print or online dictionaries

Write Silly Sentences

- Have each student use a print or online dictionary to check the spelling and meaning of each Watch-Out Word.
- Then have each student write a silly sentence that contains recent/resent and a silly sentence that contains thorough/through.
- Have students underline the Watch-Out Words in their sentences.
- · Have students share their sentences in small groups.

I resent that we lost our recent game

Use Frequently Confused Words CC.4.L.1.g **Consult References** CC.4.L.2.d

Alphabetize

Day 4

XXX

Option 1

MATERIALS

index cards, 19 per group

Prepare

- Arrange small groups and have group members collaborate to write each spelling word on a separate card.
- Tell students that they will compete against the other groups.

Play the Game

- Have each group shuffle and place their cards face down.
- At a signal, players turn over their cards and arrange them in alphabetical order as fast as they can.
- · Have group members check one another's work and assign one point for each correctly alphabetized word.
- The winner is the group with the most points.
- If two or more groups tie, then the group that finished first with the most points wins.

Spell Grade-Appropriate Words

CC.4.L.2.d

Compose a Skit

Day 4

XXX

Option 2

Write and Perform a Skit

Have small groups write dialogue for a two-person skit using as many of the spelling words as possible. Any form of the spelling word may be used. After writing, have the groups pick actors and a narrator to read stage directions. Then have students perform their skits for the class.

> Teacher: Our field trip to watch stars was fun. I'm proud of you for <u>climbing</u> up that mountain!

> Matt: Thank you, I must acknowledge that the climb was tough. I'm glad we brought our handbooks on how to hike safely.

Lily: (laughing) Yes, at first the wind was like a wrathful animal -- angry and gnashing its teeth!

Matt: Good thing we had super powers -- or at least super warm jackets.

Lily: So we withstood it like super heroes!

Demonstrate Command of Spelling

CC.4.L.2

Week 2 Daily Grammar

OBJECTIVES

Thematic Connection: Moon, Space, and Stars

Grammar: Use Comparison Adverbs

COMMON CORE STANDARDS

Edit Writing

Demonstrate Command of Grammar Use Knowledge of Conventions

CC.4.W.5 CC.4.L.1

CC.4.L.3

Day 1

PROGRAM RESOURCES

MATERIALS

Comparison Adverbs: eVisual 7.10 **Game: Practice Master PM7.9**

index cards

Teach the Rules

Use the suggestion on page T446b to introduce comparison adverbs. Then display eVisual 7.10. Explain: Comparison adverbs compare actions.

Comparison Adverbs

- For some adverbs, add -er to compare two actions.
- This rocket soars higher than that one.
- If the adverb ends in -ly, use more or less to compare two actions.

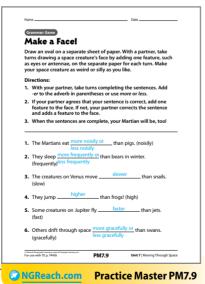
That star shines more brightly than the moon.

The small star shines **less** brightly than the large one.

Comparison Adverbs: eVisual 7.10

Play a Game XX

Review the instructions on Practice Master PM7.9 and have partners use it to play a game.



Differentiate

EL English Learners

ISSUE Students are not used to adding a word part to an adverb.

STRATEGY Display these words: late, early, fast, slow, high, soon. Have students write each word on the front of an index card. Then help them write the -er form on the back. Then display the front of each card and have students spell the -er form. Have students check their spelling.

Day 2

PROGRAM RESOURCES

More Comparison Adverbs: eVisual 7.15

Teach the Rules

Use the suggestion on page T451 to introduce more comparison adverbs. Then display eVisual 7.15.

More Comparison Adverbs

- For some adverbs, add -est to compare three or more actions.
- This rocket soars the high**est** of all the rockets.
- If the adverb ends in -ly, use the most or the least to compare three or more actions.
- The large star shines **the most** brightly of all the stars.

The small star shines **the least**

• A few adverbs have special forms for comparing things: (well) better best

(badly) worse worst

This tool works the **best** of all.

brightly of all the stars.

This time, I slept worse than before.

MGReach.com More Comparison Adverbs: eVisual 7.15

Generate Sentences X

Have students apply the grammar skills. Explain:

- Write a sentence about a planet. Use an adverb with -est.
- Write two sentences about a trip to the moon. In one sentence, use an adverb with the most or the least. In the other, use a comparison adverb that has a special form.

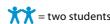
For Writing Routine 3, see page BP49.

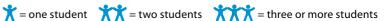
Differentiate

AL Above Level

ISSUE Students question how sentences can show comparisons of actions when there is only one verb, or action, in the sentence.

STRATEGY Explain that the second action is understood: "This time I slept worse than before," means, "This time, I slept worse than I slept before." Have students write their sentences to include the second action.







Day 3

PROGRAM RESOURCES

MATERIALS

Game: Practice Master PM7.10

large paper clips

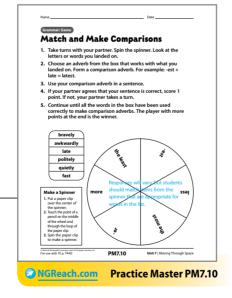
Teach the Rules

Use the grammar lesson on **Anthology** page 453 to review comparison adverbs. Then copy and display the chart below to extend the concepts.

· Use the word than after Mercury travels through space an adverb that compares faster than Earth. two actions. Venus rotates more slowly than Earth does. Use the word of after Mercury orbits closest to the sun of all the planets in our solar an adverb that compares three or more actions. system.

Play a Game XX

Distribute Practice Master PM7.10 and one large paper clip to each pair of students. Have partners use the Practice Master to play the game.



Differentiate

BL Below Level

ISSUE Students have trouble deciding when to use more/less or the most/the least and when to add -er/-est.

STRATEGY Point out that most short adverbs, especially adverbs with one syllable, use -er or -est. Have students chant "high, higher, highest; fast, faster, fastest," and so on for similar adverbs.

Have students repeat the process using adverbs ending in -ly and adding more than, the most of and less than, the least of. For example: "swiftly, more swiftly than, the most swiftly of all."

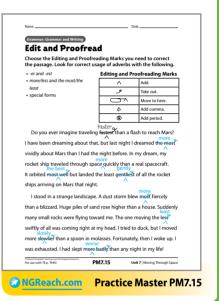
Day 4

PROGRAM RESOURCES

Grammar and Writing: Practice Master PM7.15

Grammar and Writing X

Distribute Practice Master PM7.15. Have students use editing and proofreading marks to correct errors with comparison adverbs.



Day 5

PROGRAM RESOURCES

Writing, Revising, and Editing Test: Assessment Masters A7.14-A7.15

Review and Assess XX

Display these adverbs. Have partners change each adverb to compare two actions. Then have students write three sentences, each with one of the comparison adverbs.

timidly well fast eagerly sweetly

Display these adverbs. Have partners change each adverb to compare three or more actions. Then have students write three sentences, each with one of the comparison adverbs.

soon quickly carefully high excitedly

☑ Administer the Writing, Revising, and Editing Test.

Week 2 Daily Writing Skills

OBJECTIVES

Thematic Connection: Moon, Space, and Stars

Break Up Long Sentences

COMMON CORE STANDARDS

Demonstrate Command of Grammar Produce Complete Sentences

CC.4.L.1 CC.4.L.1.f

Analyze Sentence Length

Day 1



PROGRAM RESOURCES

Long Sentences Paragraph: eVisual 7.11 Improved Paragraph: eVisual 7.12

Teach the Skill



Long Sentences Paragraph

For years, scientists said our solar system had nine planets— Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, and Pluto—but in 2006 they decided that Pluto should be called a dwarf planet, so now most scientists say there are only eight planets in our solar system. They believe Pluto is too small and doesn't have the kind of orbit a regular planet has. Also, regular planets are much bigger than their moons, while Pluto's moon is only a bit smaller than Pluto.

NGReach.com Long Sentences Paragraph: eVisual 7.11



INTERACTIVE WHITEBOARD TIP: Underline the sentence that is too long

Read the paragraph aloud. Then explain the skill: Sometimes sentences can ramble on and be too long. These are not run-on sentences—their grammar and punctuation are correct, but the reader can get lost. Listen to the sentences as I read them again. Which one seems confusing and too long?

Demonstrate how to recognize and correct a sentence that is too long: Reading sentences aloud can help you tell if they should be shortened. The first sentence is much too long. I'll break it after the list of planets to start a new sentence. Although the last sentence in the paragraph is long, it isn't confusing. The words also and while help show how the different ideas relate to each other.



Improved Paragraph

For years, scientists said our solar system had nine planets— Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, and Pluto. However, in 2006 they decided that Pluto should be called a dwarf planet. Now, most scientists say there are only eight planets in our solar system. They believe Pluto is too small and doesn't have the kind of orbit a regular planet has. Also, regular planets are much bigger than their moons, while Pluto's moon is only a bit smaller than Pluto.

NGReach.com Improved Paragraph: eVisual 7.12



Break Up Long Sentences

Day 2



Option 1

Introduce

Copy and display the following sentences:

- 1. We studied the solar system last week in school, and then we made model solar systems using tennis balls, ping pong balls, string, and wire hangers, and next we hung them around the room.
- 2. On summer nights my mom and I sit outside and try to identify different constellations, and if we don't see any, we like to make our own by tracing lines from star to star with our fingers.

Practice

Have students work in pairs to decide how to break up the sentences.

When they are satisfied with their rewrites, have each pair share and compare their new sentences with another pair of students.

Break Up Long Sentences

Day 2



Option 2

MATERIALS

timer

Introduce

Tell students that they will have 15 minutes to write an imaginary letter from Pluto to the sun, explaining why Pluto should still be considered the ninth planet in our solar system.

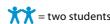
Practice

Tell students that in the letter they are to give reasons why Pluto should not be changed to a dwarf planet. The reasons may be factual, or students may give imaginative reasons.

Have students exchange papers with a partner and suggest ways to break up sentences that are too long. Remind students that a good way to check for overly long sentences is to read them aloud.

Dear Sun.

Being part of the solar system is very important to me. Although I am a tiny planet, my orbit is more regular than you might think. Besides, I've been a planet all my life!







SUGGESTED PACING

DAY 1 Teach the Skill DAY 2-4 Daily Practice Options DAY 5 **Review and Assess**

Long Sentences with "And"

Day 3



Option 1

Revise for Run-Ons

Day 4



Introduce

Explain that you can sometimes tell a sentence is too long if it has too many "ands."

Practice

Have students form two groups. Ask one group to copy the third paragraph on page 434. Have the other group copy the first paragraph on page 435. Both groups should replace each period in their paragraphs with the word and. Then have the groups exchange papers and edit them for sentence length.

Introduce

Explain that students should try to be aware of sentences in their writing that are too long.

Practice

Have students choose a piece of writing from their Weekly Writing folder or from a Learning Station, such as the Space Log. Tell students to exchange writing with a partner and discuss and correct any long sentences that would be more effective if broken into shorter ones.

Eliminating Run-Ons

Day 3



Option 2

Review and Assess



PROGRAM RESOURCES

Eliminating Run-Ons: eVisual 7.17

Introduce

Display eVisual 7.17. Have students identify the long sentence that is okay as is ("In the city . . . ") and edit the run-on sentence ("Because there are fewer buildings . . .").

Eliminating Run-Ons

Are there more stars in the country than there are in the city? It may seem that the country has more stars, but that isn't really true. In the city, there are more streetlights and lights on buildings, so this makes it harder to see the stars in the night sky. Because there are fewer tall buildings and streetlights in the country, the night sky seems darker and it is easier to see the stars in the night sky, but the number of stars is the same no matter where you are, even though you can't see them.

NGReach.com Eliminating Run-Ons: eVisual 7.17





PROGRAM RESOURCES

Writing, Revising, and Editing Test: Assessment Masters A7.14–A7.15

MATERIALS

timer

Review the Skill

Provide the following prompt.

You and your family attended an overnight star-gazing event in a community park. Write a paragraph for your school paper that tells about the event.

Set the timer for ten minutes and direct pairs of students to plan and write a paragraph in response to the prompt.

When the timer rings, set the timer for another five minutes. Tell students to circle sentences that are too long, break them up, and then rewrite the paragraph.

Administer the Writing, Revising, and Editing Test.

Practice

Have each student individually rewrite the run-on sentence twice, taking a different approach to revising it each time. Then have students gather in groups of three and have each student share both of their revisions.

Have the group discuss all six possible revisions and decide together which revision the group likes best. Then, have the group share the original run-on sentence and their favorite revision with the class.

Listen and Comprehend

OBJECTIVES

Thematic Connection: Moon, Space, and Stars Use Context to Determine Word Meanings

Explain Concepts in Text

PROGRAM RESOURCES

TECHNOLOGY ONLY

Read Aloud: eVisual 7.9

MATERIALS

timer • dictionary

Power Writing

Have students write as much as they can as well as they can in one minute about the word accelerate.

For **Writing Routine 1**, see page BP47.

WARM-UP

Have pairs of students choose a photograph or image from one of their **Small Group Reading** books. Ask them to share the photograph or image with the class and explain what they like about it.

Academic Talk

1 Discuss the Big Question

Remind students that when they explain a concept, thinking about the situation and audience can help them decide whether to use formal or informal language. Model the process: When I talk about big ideas with my friends, I use informal speech. For example, I might say, "Wow, astronauts sure are amazing to go to the moon." When I speak formally, I use precise language and a more serious tone. I might say, "I think that astronauts are courageous to travel in a spacecraft to the moon."

Use **Corners** to have students discuss the Big Question in relation to the reading for Week 1. Remind students to use informal language when speaking in their groups. Have students use informal language to give examples from the readings that show what it takes to explore space. Have students use formal language to share examples with the class. For **Corners**, see page BP45.



Corners

Vocabulary Strategy

2 Multiple-Meaning Words Anthology page 446

Explain: When you encounter a word that has multiple meanings, you can use context clues to help you determine the correct meaning. Review the four kinds of context clues (definition, restatement, antonyms/synonyms, and examples).

Project **Student eEdition** page 446 and read aloud the instructions and sample. Discuss the two meanings shown for rate, and explain how travels and slower help determine the correct meaning for the word as used in the sentence.

Model the skill using the second meaning for rate. Write: We will not pay full price if there is a student rate for admission to the Air and Space Museum. Explain: I see the words price and admission in the sentence. These words are synonyms for fee, the second meaning of rate. Repeat the strategy with two other examples of multiplemeaning words, such as trade, mold, current, or legend.

See **Differentiate**

COMMON CORE STANDARDS

Reading Refer to Details and Examples When CC.4.Rinf.1 **Explaining Text** CC.4.Rinf.3 **Explain Concepts** Read with Fluency to Support CC.4.Rfou.4 Comprehension Writing CC.4.W.9 **Draw Evidence from Texts**

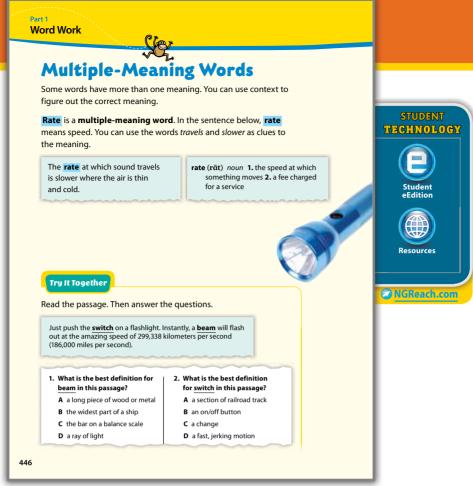
Apply Grade 4 Reading Standards Speaking and Listening **Explain Ideas and Understanding**

CC.4.SL.1.d Language and Vocabulary

CC.4.W.9.b

Determine Meanings of

CC.4.L.4 Multiple-Meaning Words



Anthology page 446

3 Try It Together Anthology page 446

Read the directions aloud and have partners work together to answer the questions. (question 1: D; question 2: B)

Check & Reteach

OBJECTIVE: Use Context to Determine Word Meanings

As students figure out meanings for the words *switch* and *beam*, determine whether students are able to use context clues correctly.

If students have difficulty, have them follow these steps:

- Eliminate all definitions that do not fit with the topic of the sentence.
- Insert the most important words from remaining definitions in place of the multiplemeaning word. Choose the definition that makes the most sense.

Weekly Writing

Gather students' writing throughout the week.

- √ Daily Writing Skills Practice (T445m–T445n)
- √ Power Writing (T445o, T446c, T451a, T453a, T453e)
- √ Writing (T446b, T451, T453, T453d, T453g)
- √ Writing Project (T453i–T453l)

Differentiate

SN Special Needs

ISSUE Students have difficulty focusing on a multiple-meaning word in the passage.

STRATEGY Have students use their index fingers to point to the multiple-meaning word and track the answer choices.

BL Below Level

ISSUE Students cannot read the passage and answer choices independently.

STRATEGY Have more proficient students read aloud the passage and answer choices. Have partners track the text as the pair works together to answer the questions.

Listen and Comprehend

Scientific Text

Fluency

Model Intonation Explain the concept: *Fluent* readers read with correct intonation. They raise and lower their voices as they read text. When you read a sentence that's not a question, let your voice go down at the end. Model intonation with sentences from the Read Aloud.

Comprehension



Review the definition of scientific text. Explain that to understand and explain a scientific text, a reader can use the introduction, headings, and conclusion.

Display eVisual 7.9 and read aloud the title and introduction. Explain: The title and first paragraph tell me this article is about travel to Mars. Point out that this is a strong introduction because it immediately engages the reader's imagination. Reread the last sentence in the first paragraph and explain: One challenge of space travel is being in an enclosed space for a long time. I think the article will focus on this concept. As I read the text, I will look for details that explain this concept. Read the first heading and discuss with students what they think this section will be about.



Scientific Text

The Mars500 Project

Imagine launching into space for the long journey to Mars. After more than 200 days you reach the planet's orbit. You have traveled more than 35 million miles at high **speeds**. Traveling such a long **distance** in close confinement would be challenging, both mentally and physically.

Mimicking the Space Experience

Understanding the challenges that astronauts will face is an important part of a successful mission to Mars. In June 2010, the European Space Agency and the Russian Institute for Biomedical Problems set out to study the effects as part of the Mars500 Project. The study explored the capacity of astronauts to withstand being isolated, or cut off, from Earth for long periods of time in close confinement.

Six volunteers agreed to live for 520 days in an isolation building. The building included a number of interconnected structures. The living guarters, a medical module, and a storage module made up the main structures. The building also included a Mars landing module simulator and a module that resembled the surface of Mars. During the first and last month of the "flight," the volunteers had voice communication with the "control center." For the remainder of the study, communication was limited to text messages.

Studying the Effects of Isolation and Confinement

The building copied all but the weightlessness astronauts would experience in space. The volunteers lived and worked as they would on an actual mission to Mars. They kept the modules and equipment in working order and conducted experiments. They also monitored each other's physical health, moods, sleep patterns, and working relationships.

It took many people years to design, develop, and monitor this project. The study's designers hope that the data will one day help keep astronauts healthy and safe on long missions to Mars.

NGReach.com Read Aloud: eVisual 7.9



Have partners identify details that support each main idea in the text. Have them assess how well the concluding statement summarizes the focus of the article.

See **Differentiate**

Check & Reteach

OBJECTIVE: Explain Concepts in Text

Monitor students' understanding of concepts in the **Read Aloud** by asking questions, such as: What was the isolation building? Why were the volunteers there?

If students have difficulty, review explaining scientific text. First, look at the title and the headings. Read the introduction and conclusion for clues about the text's main ideas. Identify the paragraph's main idea and relate it to the section heading. Then find supporting details.

Reread the second paragraph of "The Mars500 Project." Help students use the heading to help them identify the main idea of the paragraph and details that support it.

Writing

6 Write About Ideas in Scientific Text

Model writing how to explain ideas presented in a scientific text.

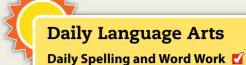
Think Aloud	Write
From the title and introduction, I see the article is about traveling to Mars.	Scientists plan for astronauts to travel to Mars one day. But the trip will be challenging.
The first section is about a study of being in a small space for a long time.	Scientists studied the effects of isolating astronauts in a small space for a long time.

For Writing Routine 2, see page BP48.

Have partners write paragraphs to explain concepts in "What's Faster than a Speeding Cheetah?" and then add them to their Weekly Writing folders.



WRAP-UP Have students imagine that they are starting to read a book on Mars rovers. Ask: What strategies would you use to understand the book's main ideas? (Possible responses: I'd look at the illustrations because I'd want to see how a possible Mars rover would be different from previous space vehicles. I'd look at the chapter titles because that would tell me what information the book contained and how it was organized.)



Pretest page T445i Daily Grammar

Write: early/earlier, fast/faster, easily/more easily. Explain that the second word in each pair is a comparison adverb. Use page T445k to teach comparison adverbs.

Daily Writing Skills 🗹

Write: Living and working in space, even for a short period of time, is an exhausting and exhilarating experience, and is one that more people have each year, including non-astronauts, such as teachers. Explain that this is an example of a long sentence that could be improved by breaking it into smaller sentences. Then use page T445m to practice breaking up long sentences.

Differentiate

SN Special Needs

ISSUE Students have difficulty identifying key concepts of the text.

STRATEGY Have students read aloud the title to identify the topic of the text as a whole. Have them read aloud each heading to identify the topic of each section. Then help students find sentences in each section that tell about the heading.

AL Above Level

ISSUE When reading for information, students read too rapidly and overlook specific facts or ideas.

STRATEGY Have students complete a K-W-L-Q chart. Students write: what they already know about the topic (column 1, before reading); what they want to learn (column 2, before reading); what they learn (column 3, during reading); more questions they have (column 4, after reading).

К	w	L	Q
People cannot live on Mars.	What would it be like to land on Mars?		

Day 2 Read and Comprehend Science Report

OBJECTIVES

Thematic Connection: Moon, Space, and Stars

- ☑ Use Context to Determine Word Meanings
- Draw Conclusions to Comprehend Text
- **Explain Concepts in Text**

MATERIALS

timer

Power Writing

Have students write as much as they can as well as they can in one minute about the word *solve*.

For Writing Routine 1, see page BP47.



WARM-UP

Ask students to imagine they are astronauts traveling to Mars. Have students discuss comfort and safety features they would like on their spaceship.

Vocabulary Strategy

1 More Multiple-Meaning Words **☑**

Remind students to find context clues for multiple-meaning words in examples, definitions, paraphrases, and the word's part of speech. At the board, write two definitions of *pound*: 1. noun: a unit of weight; 2. verb: to hit something hard. Write: Did someone pound on the door? Model: *In this sentence*, pound *is an action verb*, so I know that the second meaning is being used.

Write *look* and two definitions: 1. verb: to use the sense of sight; 2. noun: appearance. Write: He has a strange look. Have partners use part of speech to determine the definition in context (meaning 2). Use another type of context clue and say: *The scale shows that the baby weighs seven pounds*. Have students paraphrase to determine whether *scale* refers to a device for weighing or a fish's outer covering. Continue the practice by having students work with additional multiple-meaning words, such as *break* and *spring*.

Check & Reteach

OBJECTIVE: Use Context to Determine Word Meanings

Monitor students' ability to use context clues to determine word meaning. If students have difficulty, write these sentences:

- The climbers hope to scale the mountain before the first snowfall.
- It is hard to have to practice scales on the piano every day.

Read the first sentence. Explain: I need to figure out the meaning of scale from context clues. I ask myself: Is scale a person, place, or thing? (No.) Does scale tell about an action? (Yes.) What does the sentence tell me about scale? (You can scale a mountain.) Ask students what scale means. (Possible response: to climb) Have groups use context clues to determine the meaning of scale in the second sentence and report their process to the class.

COMMON CORE STANDARDS

Reading

Refer to Details and Examples CC.4.Rinf.1
When Explaining Text
Explain How Author Uses CC.4.Rinf.8

Reasons and Evidence
Read with Fluency to CC.4.Rfou.4
Support Comprehension

Read with Purpose and CC.4.Rfou.4.a Understanding

Writing

Draw Evidence from Texts CC.4.W.9

Language and Vocabulary
Determine Meanings of CC

termine Meanings of CC.4.L.4

Multiple-Meaning Words

T446c Unit 7

2 Preview and Predict

Academic Talk

Remind students: When you begin to read a science report, you preview it by looking at the features, such as the title, headings, photos, and captions. Project **Student eEdition** page 447. Have students discuss the features and information they find.



Anthology page 447

Reading

3 Reading a Science Report

CONNECT ACROSS TEXTS Project **Student eEdition** page 447. Ask students to recall what they learned about speed in outer space from the math article. Ask: *If you were designing a spaceship, how could you use math to figure out what the ship should be like?* Then have a volunteer read aloud **Connect Across Texts**.

GENRE Read aloud the definition of the genre. Clarify: A science report is not the same as a science experiment. A report tells about knowledge that scientists have gained about a topic. A report can include knowledge from many experiments.

SCIENCE BACKGROUND Explain that there have been many NASA missions to Mars by unmanned orbiters and landers, but no manned missions so far. Today's Mars missions are focused on finding evidence of water, which might indicate life on Mars in the past or present, and collecting samples of rocks and atmosphere.

Read and Build Comprehension

- Draw Conclusions to Comprehend Text What can you conclude about the people who design spacecraft for astronauts to live in? (Possible responses: Some of them are architects; they work hard and face challenges.)

Fluency

Practice Intonation, Accuracy, Rate As students read, monitor their intonation, accuracy, and rate.

Answers Before You Move On

- 1. Make Connections Possible response: I read that the missions could take months or years!
 I think that is a long time. I decide that TransHab should have everything the astronauts would use on Earth during a year.
- **2. Make Predictions** Possible responses: how big to make it, how to make it strong enough for space, what to put in it for the astronauts

Day 2

Read and Comprehend

Science Report

Best Practices

Encourage Elaboration As students talk, use specific prompts:

- I like your idea about fitting things into different-sized spaces. What else can you say about that?
- Does the challenge of building TransHab remind you of anything in your own life? Why?

Mini Lesson

Verify Facts

Remind students that facts are statements that can be proven true. Explain: When reading, it is important to be able to identify reasons and evidence in text that support facts. It is also important to verify the evidence given by using reliable sources.

Model identifying reasons and evidence to support the facts given on **Anthology** page 447. The report tells me that a mission to Mars could take months or years. If I read ahead, I might find evidence for this later in the article. How else could I verify this fact? (Possible response: I could look at the NASA Web site to see how long they estimate flights to Mars would take.)

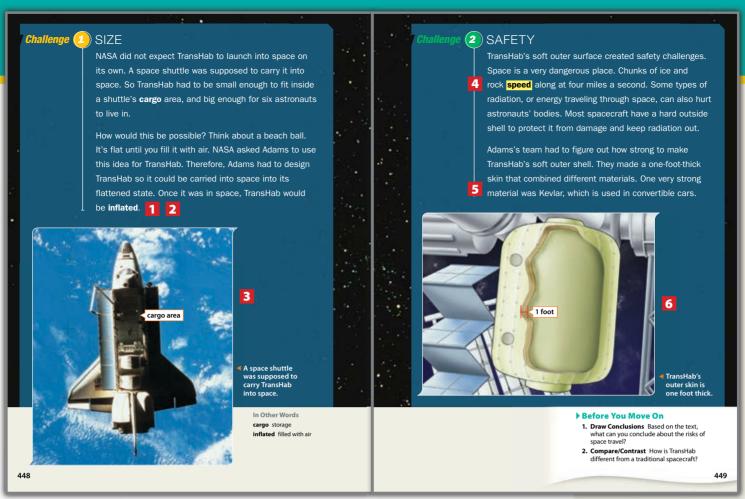
Display **Student eEdition** page 448 and point out the sentence, *So TransHab had to be small enough to fit inside a shuttle's cargo area, and big enough for six astronauts to live in.* Have partners discuss how they would verify the information in this sentence. Ask: *Is there evidence on Anthology pages 447–449, or would you have to look elsewhere for evidence? Where would you look?* (Possible response: I could look at the rest of the article, and if the information is not there, I could look on a reliable Web site.)

Have partners scan through to the bottom of **Anthology** page 449 for facts and then discuss how they would verify each one.

Read and Build Comprehension

- 1 Cause and Effect Why did TransHab have to be inflatable? (It had to be inflatable because it had to be small enough to fit into a space shuttle's cargo, and big enough for six astronauts to live in.)
- Interpret Figurative Language With what ordinary Earth object does the author compare TransHab? (a beach ball) What are the similarities between the TransHab and a beach ball? (They both can be inflated or deflated.)
- **Use Text Features** How does the labeled picture help you understand what size TransHab had to be? (Possible response: The photo and the label show the cargo area and how large it is compared with the space shuttle as a whole.)

See **Differentiate**



Anthology pages 448–449

Read and Build Comprehension

- 4 Connect to Mathematics If the ice and rock speed through space at the rate of four miles per second, what is their rate in miles per hour? (14,400 miles per hour)
- Make Inferences What can you infer about how Adams and her team decided how thick TransHab's outer shell should be and what materials to use? (Possible response: They tested different materials and different thicknesses; they made calculations based on what was known about the materials.)
- **Use Text Features** In the illustration, why is part of TransHab's outer shell cut away? (It shows the shell's thickness compared to TransHab as a whole.)

Differentiate

BL Below Level

ISSUE Students may have difficulty understanding the use of terms such as *TransHab* and *NASA*.

STRATEGY Pronounce the terms for students and explain the meaning of the abbreviation NASA. (NASA stands for National Aeronautics and Space Agency.) Discuss with students the meaning of TransHab stated on page 447 and the reasons for using these abbreviated terms.

Above Level

ISSUE Students find ambiguous examples of fact and opinion, such as "Space is a very dangerous place" (page 449).

STRATEGY Encourage students to discuss whether the statement is fact or opinion, and to supply reasons and evidence that support this statement, such as evidence of equipment lost or damaged and casualties in space.

Answers Before You Move On

- **1. Draw Conclusions** ✓ Possible response: The text says there are dangers in space, such as radiation and speeding ice; my conclusion is that ships must be designed to protect astronauts.
- 2. Compare/Contrast TransHab is inflatable; it is small enough to fit inside the space shuttle; its outer surface is soft.

Day 2

Read and Comprehend

Science Report

Best Practices

Encourage Participation If a student does not have the background experience necessary to fully participate in a discussion, encourage him or her to ask questions.

Differentiate

BL Below Level

ISSUE Students have difficulty articulating reasons for their opinions.

STRATEGY Have students return to the selection and scan for sentences that shaped their opinions.

SN Special Needs

ISSUE Students have difficulty imagining hypothetical situations.

STRATEGY To make the question tangible, have students base answers on the picture on page 450.

Answers Before You Move On

- **1. Use Text Features** The exercise room and bathroom on Level Three, the bedrooms on Level Two, and the kitchen and dining room on Level One help make TransHab like a real home.
- **2. Draw Conclusions** Possible response: Astronauts must get used to always holding on to something or, if they don't, floating around. They also must get used to objects floating around.

Read and Build Comprehension

- **Compare** How is the force of gravity in space different from gravity on Earth? (On Earth, gravity keeps people and objects on the ground; in space, other forces cancel out gravity, so people and objects float.)
- **Ask Questions** After reading the report, what else would you like to learn about space travel? (Responses will vary. Possible response: What is happening now with the NASA plan to send a mission to Mars?)

Check & Reteach

OBJECTIVE: Draw Conclusions to Comprehend Text

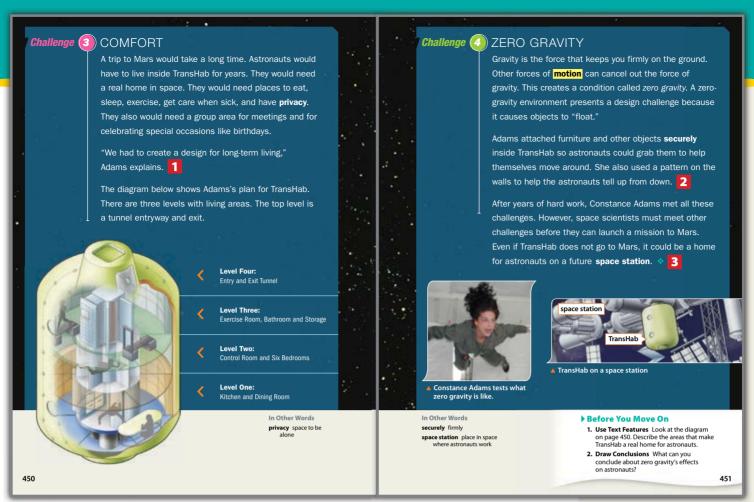
Monitor students' ability to draw conclusions.

If they have difficulty, remind them that a conclusion is based on facts, knowledge, and reasons. Model drawing a conclusion in a real-life situation: Suppose you get on your bicycle and notice that the front tire is flat. You know that air has gone out of that tire, that a bike needs both tires to function well, and that it would damage the bike to try riding it like this. What do you conclude? (You need to pump air into the tire.) Then have partners reread the last paragraph of the selection and draw a conclusion from it. (Possible conclusions: The future of TransHab is not certain; there are many tasks that go into creating a new spaceship.)

OBJECTIVE: Explain Concepts in Text

Monitor students' ability to determine the text's concepts.

If students have difficulty, ask: What is the single most important thing you learned from this report? (Possible response: TransHab is a spacecraft in which astronauts can live during long voyages, to places such as Mars.) Then have partners brainstorm other important ideas they learned in the report. (Possible responses: TransHab is inflatable; TransHab must be made with strong materials; TransHab is designed to be homelike.)



Anthology pages 450-451

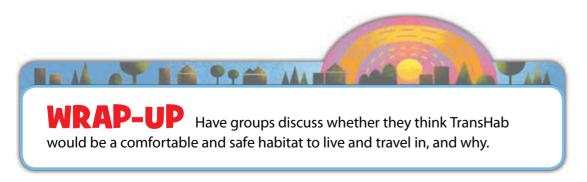
Writing

4 Write a Response

Have students write their response to the idea of living in a spaceship such as TransHab for months or years. Model: I have mixed feelings about living in TransHab. On one hand, it would be an adventure, I would learn a lot, and I would be one of the few people who had ever done it. On the other hand, it would be very crowded, and I would miss my friends and family back on Earth.

Remind students to give specific reasons for their opinions. Then have students add their responses to their Weekly Writing folders.

See **Differentiate**



Daily Language Arts

Daily Spelling and Word Work

✓

Practice page T445i

Daily Grammar

Read aloud the sentence: *The TransHab was designed well*. Point out that the comparison form of the word *well* is *better*. Then use page T445k to teach comparative adverbs.

Daily Writing Skills 🗹

Point out ways to break up this sentence: Designers of spacecraft try to design spaces that can survive the rigors of space travel and be a place where astronauts can live and work for months as they travel through space or even visit Mars. Use page T445m to practice breaking up long sentences.

Review and Compare Math Article and Science Report

OBJECTIVES

Thematic Connection: Moon, Space, and Stars **☑** Compare Facts and Opinions to Comprehend Text

Grammar: Use Adverbs

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Comparison Chart: Practice Master PM7.11 Grammar Practice: Practice Master PM7.12 Unit Concept Map: Practice Master PM7.1

TECHNOLOGY ONLY

Grammar Passage: eVisual 7.16

MATERIALS

timer, index cards

Power Writing

Have students write as much as they can as well as they can in one minute about the word height.

For **Writing Routine 1**, see page BP47.

WARM-UP

Remind students that their readings this week have been about space travel. Post the terms *Opinion* and *Fact*, and then have volunteers call out an opinion about, or a fact from, the readings as you point to one term or the other.

Vocabulary Review

Review Science and Academic Vocabulary

Project **Student eEdition** page 452 and point out the Key Words. Also display comparison, synthesize, conclusion, and graph. Chorally read all the words as a class. Pause after each word and have a volunteer give the definition.

Have groups write words on separate cards and place them face down in a pile. Have partners take turns picking a card and talking informally about the word's meaning. Have the other partner say a sentence using the word correctly.

Review and Integrate Ideas

2 Compare Fact and Opinion ✓ Anthology page 452

Read aloud the introduction on **Student eEdition** page 452. Use the chart to discuss fact and opinion. Present statements of fact and opinion about space travel. Ask students to tell whether each is a fact or an opinion and explain why.

- The distance from Earth to the moon is about 385,000 kilometers. (fact: verifiable)
- Flying to the moon would be fun. (opinion: People have different ideas of fun.)

Have partners reread the science report aloud and review the scientific article. As students read, have them look for examples of facts and opinions. Have partners record the examples on **Practice Master PM7.11** and explain their reasoning.

Check & Reteach

OBJECTIVE: Compare Facts and Opinions to Comprehend Text 🌠

Monitor students' abilities to distinguish between facts and opinions during conversations. If students have difficulty, direct them to the fourth paragraph on **Anthology** page 435. Read the first sentence. Share your thinking process: I cannot prove that a peregrine falcon is magnificent. Magnificent is a descriptive word that cannot be measured the way a word like fast can. These types of descriptive words can alert you that you are reading an opinion. Also remind students that just because something is phrased as a statement doesn't make it a fact. For example: Cheetahs are beautiful. Then say: Falcons are birds. Ask: Is this statement a fact or an opinion? (fact) How do you know? ("Bird" is a category; I can check a reference book or a reputable Web site and learn whether a falcon is a bird or not.)

COMMON CORE STANDARDS

Reading

Refer to Details and Examples CC.4.Rinf.1 When Explaining Text Read with Fluency to Support CC 4 Rfou 4 Comprehension

Speaking and Listening

Report on a Text CC.4.SL.4

Language and Vocabulary

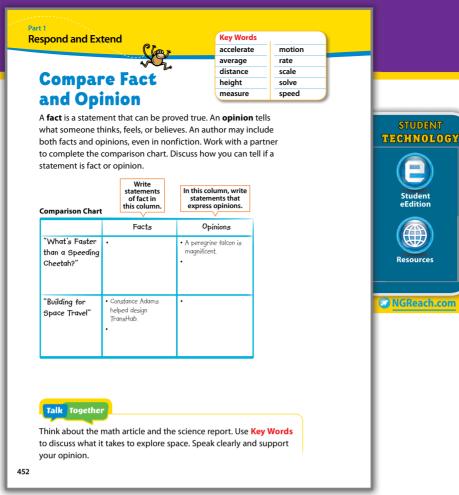
CC.4.I.1 Demonstrate Command of Grammar Use Knowledge of Language and CC.4.L.3 Conventions

Acquire and Use

CC.4.L.6

Domain-Specific Words

T451a Unit 7



Anthology page 452

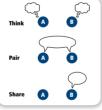
Academic Talk

3 Talk Together Anthology page 452

Review the main points of "What's Faster than a Speeding Cheetah?" and "Building for Space Travel," focusing on the sections that are about motion and space travel. Have partners use a **Think, Pair, Share** to discuss the knowledge and technology it takes to explore space.

- Ask each partner to think about speed and motion and how they relate to the design of a space vehicle.
- Have partners exchange ideas.
- Have partners share their ideas with the class.

For **Think, Pair, Share**, see page BP46.



Think, Pair, Share

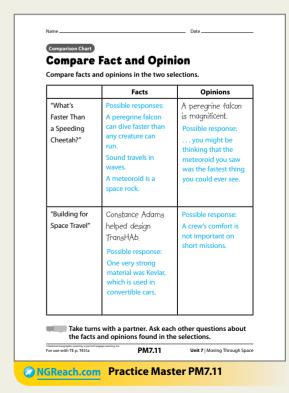
Fluency

Practice Intonation As students reread the science report aloud, monitor and listen for correct intonation.

Best Practices

Encourage Respect Encourage students to validate each others' points of view. Provide examples:

- Good point.
- That makes sense.
- I can tell you've thought about this a lot.



Review and Compare

Math Article and Science Report

Differentiate

BI Below Level

ISSUE Students have difficulty identifying adverbs such as often, very, and really.

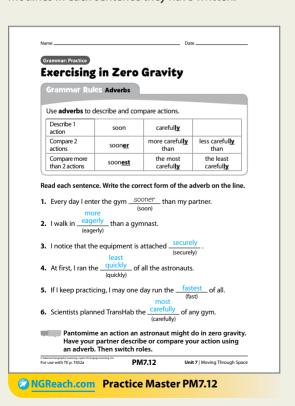
STRATEGY Help students make a chart listing these adverbs and the kinds of words they modify. Guide them to recall or find two examples for each.

Adverb	Kind of Words Modified	Examples
often		
very		
really		

AL Above Level

ISSUE Students need more challenging practice with adverbs.

STRATEGY Have students write sentences using these words as adverbs and adjectives: skillful/ skillfully, amazing/amazingly, constant/constantly. Have them identify what each adverb and adjective modifies in each sentence they have written.



Grammar Focus

4 Adverbs 🗹 Anthology page 453

Project **Student eEdition** page 453. Have volunteers read aloud the introduction and review the chart.

Then display eVisual 7.16 and read aloud the passage, pausing to identify the first adverb and its rule: Use an adverb to tell where, how, or when something happens. Have students identify the remaining adverbs in the passage and state the rule for each.

Grammar Passage

Human beings can run guickly. However, many animals run more guickly than humans do. For example, an ostrich runs about three times faster than a person can run. The cheetah, the fastest of all land animals, moves at a rate of a mile per minute. The peregrine falcon travels the fastest of all animals, at about 200 miles per hour when diving from great heights.

NGReach.com Grammar Passage: eVisual 7.16



5 Read Adverbs Anthology page 453

Read aloud the directions and the sentence. After students find adverbs in the sentence, have them return to "What's Faster than a Speeding Cheetah?" and find at least two adverbs in it.

See **Differentiate**

6 Write Adverbs Anthology page 453

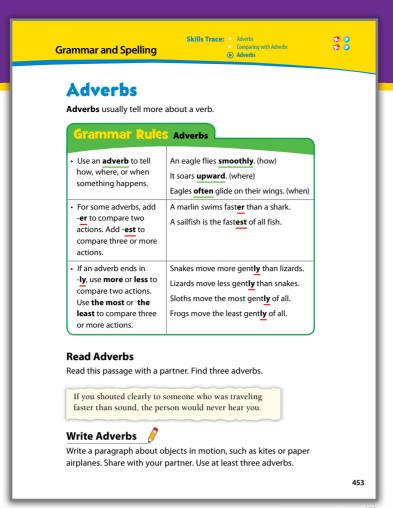
Read aloud the directions and have students write independently. Assign Practice Master PM7.12.

Check & Reteach

OBJECTIVE: Grammar: Use Adverbs

Monitor partner discussion during the Read Adverbs activity.

If students have difficulty identifying adverbs, ask: What does an adverb do? (It tells how, where, or when something happens.) What kind of word is shouted? (an action word) Which word describes how someone shouted? (clearly) Have students find the other action words in the sentence and identify the adverbs that describe how, where, or when these actions occur. Have them use the Grammar Rules chart to explain how each adverb is used in the sentence.



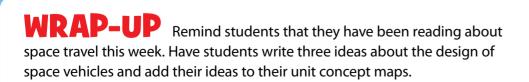
Anthology page 453

Writing

Write to Reinforce Grammar

Have students reread the list of Key Words on **Anthology** page 452. Ask them to identify the Key Words that are verbs (*accelerate, measure, solve*). Have them write a sentence for each verb, modifying that verb with an adverb. Tell students they may change the form of the verb (for example: *solved* or *solves* instead of *solve*). Model composing a sentence: *I will try to solve* this problem successfully.

After students have written their sentences, have them circle each adverb and use the rules on page 453 to check correctness. They may also check a dictionary for spelling if necessary. Then have students add the sentences to their Weekly Writing folders.





Daily Spelling and Word Work 🗹

Practice page T445j

Daily Grammar 🌠

Point out the -er adverb faster in the second sentence of the second paragraph on **Anthology** page 436. Then use page T445I to teach adverbs.

Daily Writing Skills 🗹

Point out ways to break up this sentence: Because astronauts rely completely on the spacecraft they travel in for their safety, spacecraft designers must make a vehicle that will not be damaged by either the hunks of ice and rock that hurtle through space or the radiation found there. Then use page T445n to practice breaking up long sentences.

Day 4 Read and Comprehend Astronaut Blog

OBJECTIVES

Thematic Connection: Moon, Space, and Stars

Explain Uses of Reasons and Evidence

Use Context to Determine Word Meanings

PROGRAM RESOURCES

PRINT & TECHNOLOGY

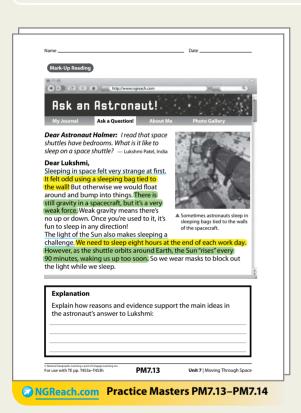
Mark-Up Reading: Practice Masters PM7.13-PM7.14

TECHNOLOGY ONLY

Mark-Up Model 7.1 or Model 7.1 PDF Vocabulary Strategy Practice: eVisual 7.18

MATERIALS

yellow and green markers • timer



COMMON CORE STANDARDS

COMMON CORE STANDARDS			
Reading			
Explain How the Main Idea Is	CC.4.Rinf.2		
Supported by Details			
Determine Meanings of Academic	CC.4.Rinf.4		
and Domain-Specific Words			
Explain Uses of Reasons and	CC.4.Rinf.8		
Evidence			
Read with Fluency to Support	CC.4.Rfou.4		
Comprehension			
Writing			
Apply Grade 4 Reading Standards	CC.4.W.9		
Language and Vocabulary			
Determine Meanings of	CC.4.L.4		
Multiple-Meaning Words			



WARM-UP

Have the class spend one minute brainstorming a list of words suggested by the phrase "space flight." Then have students arrange the words in two groups: positive terms (such as *adventure*) and negative terms (such as *danger*). Have the class review the grouped words to see which group is larger.

Comprehension

1 Explain Uses of Reasons and Evidence

Explain that students will learn how the author of a blog uses reasons and evidence to support main ideas.

SCREEN 1

- Remind students that they have learned how to identify how authors use reasons and evidence to support ideas in persuasive texts. Explain: Now you will apply that skill to a different kind of text. In the blog you will read, the author is not trying to convince the reader to do something. He gives his opinions about life as an astronaut. Display and read aloud the passage on Mark-Up Model 7.1. Have students follow along using Practice Master PM7.13.
- 2 Elaborate: An author's main idea can be an opinion. Have volunteers underline the author's main idea and click the Main Idea button to confirm. Remind students to mark up **Practice Master PM7.13**. Then click the arrow to go to the next screen.

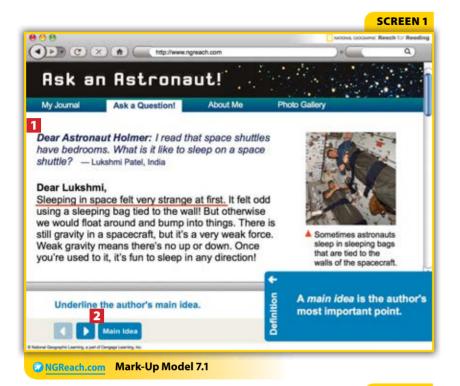
SCREEN 2

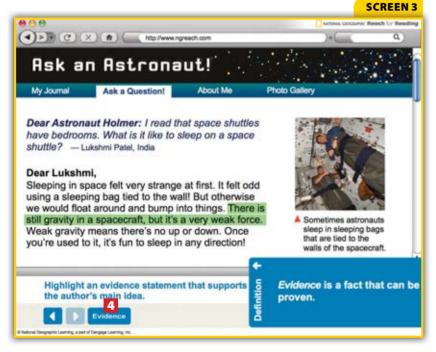
Explain: An author usually gives reasons to support opinions. Have volunteers yellow-highlight the first reason the author gives that supports the main idea, and click the Reason button to confirm the answer. Remind students to mark up **Practice**Master PM7.13 accordingly. Ask: What how question does this sentence answer to support the main idea? Then click the arrow to go to the next screen.

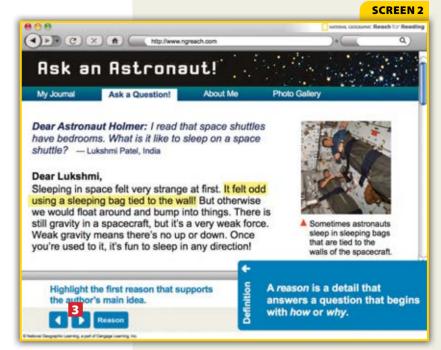
SCREEN 3

Explain: An author may also give evidence to support opinions. Have volunteers green-highlight the first evidence statement that supports the author's main idea and click the Evidence button. Remind students to mark up **Practice Master PM7.13**. Ask: How does this evidence support the main idea? (Possible response: It gives a fact about weak gravity. The fact explains why sleeping in space feels strange.)

Have students mark up **Practice Masters PM7.13–PM7.14** by underlining main ideas and highlighting reasons with yellow and evidence with green. Then have students write explanations of how reasons and evidence support the main ideas in each blog post. Encourage partners to share and compare their mark-ups and their explanations.







Fluency 🗹

Model and Practice Intonation Review:

Intonation is the rise and fall of your voice as you speak. Punctuation marks, such as exclamation points, are cues to change the rise and fall of your voice to express surprise or excitement. Model reading aloud the first question and answer in **Practice Master PM7.13**. Have students circle all exclamation points and question marks in the text. Then have students read the questions and answers aloud, focusing on punctuation to cue appropriate intonation.

Check & Reteach

OBJECTIVE: Explain Uses of Reasons and Evidence

Look at students' marked-up **Practice Master PM7.13** to check for correct mark-ups of and explanations about reasons and evidence.

If students have difficulty explaining how reasons and evidence support main ideas, prompt with these questions:

- What how or why question does this statement answer? (Responses will vary.)
- What does this fact explain about the main idea? (Responses will vary.)

Read and Comprehend

Astronaut Blog



Daily Language Arts

Daily Spelling and Word Work Practice page T445j

Daily Grammar 🌠

Have students find the comparison adverb easier in the first paragraph on Practice Master PM7.14. Then use page T445l to review comparison adverbs.

Daily Writing Skills 🌠

Point out the first two short sentences in the second answer on **Practice Master** PM7.13. Use page T445n to review how to break up long sentences.

Vocabulary Practice



Remind students that they know the difference between a multiple-meaning word and a related word. Have a volunteer explain the concept or review the lesson on page T275c. Explain that students will learn how to use related words as clues to meanings of multiple-meaning words. Then display eVisual 7.18.



Vocabulary Strategy Practice

- 1. Sleeping in space felt very strange at first. There is still gravity in a spacecraft, but it's a very weak force.
- 2. Liquid just drifts around the cabin in little drops . These droplets can
- 3. Exercising in space is fun! We might use the exercise bike on board to stay in shape.

drop verb to fall noun small rounded mass of liquid **exercising** *noun* using *verb* actively moving one's body for physical fitness **space** *noun* 1. area 2. region outside Earth's atmosphere

NGReach.com Vocabulary Strategy: eVisual 7.18



Explain: In each pair of sentences, the underlined word has more than one meaning. Explain that partners will use the related word in the second sentence of each pair to select the meaning of the multiple-meaning word that is used in the first sentence.

Model with the first pair of sentences: I know that the related word spacecraft means "a vehicle for traveling in a region outside Earth's atmosphere." This helps me determine that the word space in the first sentence means "region outside Earth's atmosphere."

Power Writing

Have students write as much as they can as well as they can in one minute about space.

For Writing Routine 1, see page BP47.

Check & Reteach

OBJECTIVE: Use Context to Determine Word Meanings

Listen to partners' explanations to check if they correctly identify related words, and use their meanings to determine the meanings of multiple-meaning words.

If students have difficulty using related words to determine meanings of multiple-meaning words, reteach with the second pair of sentences: I know that the related word droplets means "small drops of liquid." This helps me determine that the word drop means "small rounded mass of liquid."

Writing

3 Write about Reasons and Evidence

Introduce the activity: Now write a paragraph about a text that does not try to persuade the reader to do or think anything. You will explain how the author uses reasons and evidence to support the main ideas. Model the process.

Think Aloud	Write
First, I will write about a main idea. I will use one of the author's opinions.	The author thinks that sleeping in space was very strange at first.
Next, I will identify a reason the author gives and explain how it supports that opinion.	He says that you use a sleeping bag tied to the wall so you don't float around. This supports his opinion by answering the question, "How does sleeping in space feel strange?"
Then, I will identify some evidence the author presents and explain how it supports the opinion.	Then he gives the fact that there is only weak gravity in a spacecraft. It supports the opinion by explaining why sleeping in space felt strange.

For **Writing Routine 2**, see page BP48.

Have students write about a different answer from the astronaut.

See **Differentiate**

Academic Talk

4 Discuss Drawing Conclusions

Introduce the activity: Now you will discuss conclusions you can draw, based on details in the astronaut blog. Have students recall how to draw a conclusion and, if necessary, review **Anthology** page 430. Ask: What are two important ideas in "Ask An Astronaut"? How do they fit together? What do you think about how the two ideas fit together? Have partners discuss their conclusions and explain the details on which they based them.



WRAP-UP Form small groups. Have each group write two or three questions they would ask if they could talk to an astronaut in person. Have the groups share their questions with the class. For each question, have the class discuss the answer that they would expect to get from the astronaut.

Differentiate

SN Special Needs

ISSUE Students have difficulty distinguishing opinions, reasons, and evidence.

STRATEGY Have students complete a chart like the one below before they begin writing.

Reasons and Evidence Chart

Opinion	Reason	Evidence

BL Below Level

ISSUE Students' writing lacks organization. **STRATEGY** Give students a simple outline

	ollow:
l.	Author's opinion that is the main idea
II.	Reason that supports that main idea
III.	How the reason supports the main idea
IV.	Evidence that supports the main idea

V. How the evidence supports the main idea

Review and Compare Math Article, Science Report, and Astronaut Blog

OBJECTIVES

Thematic Connection: Moon, Space, and Stars Use Context to Determine Word Meanings Compare Support for Main Ideas

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Unit Concept Map: Practice Master PM7.1 Mark-Up Reading: Practice Masters PM7.13-PM7.14

TECHNOLOGY ONLY

Vocabulary Strategy Practice: eVisual 7.19 Comparison Chart: eVisual 7.20

MATERIALS

timer

Power Writing

Have students write as much as they can as well as they can in one minute about the word distance.

For Writing Routine 1, see page BP47.

COMMON CORE STANDARDS

Explain How the Main Idea Is CC.4.Rinf.2 Supported by Details **Determine Meanings of Academic** CC.4.Rinf.4 and Domain-Specific Words Explain Uses of Reasons and Evidence CC.4.Rinf.8

Writing

Write Over Shorter Time for CC.4.W.10 Specific Tasks

Speaking and Listening

CC.4.SL.1.a Come to Discussions Prepared and Draw on Preparation and Information to Explore Ideas

Language and Vocabulary

Determine Meanings of CC.4.L.4 Multiple-Meaning Words



WARM-UP

Write several multiple-meaning words linked to space travel, such as space, star, and float. Have students give as many meanings as they can for each.

Vocabulary Practice

Multiple-Meaning Words

Remind students that they have learned how various kinds of context clues, including related words, can help students determine the meanings of multiplemeaning words. Display eVisual 7.19.



Vocabulary Strategy Practice

The astronaut's ten-day mission in space had just begun. She reached out to flip a switch on the control panel. A quick look through the spacecraft window showed Earth, her home so far away. She had known since she began to train for working in space that she would miss her family a lot. But she also knew how to stay focused on

dreams noun 1. thoughts and experiences during sleep 2. goals

look noun a glance verb to seem

miss noun a failure verb to feel the absence of

space noun 1. area 2. region outside Earth's atmosphere

switch *noun* an on/off button *verb* to change

train noun a line of railroad cars verb to prepare to do something

NGReach.com Vocabulary Strategy: eVisual 7.19 /



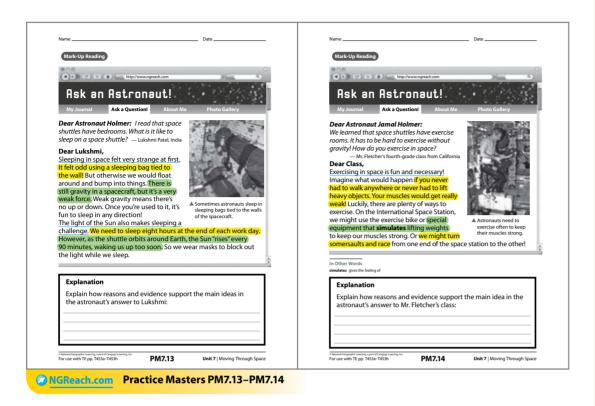
INTERACTIVE WHITEBOARD TIP: Have students circle the meaning that is used in each sentence

Read the passage with students. Then have them list the six underlined words. Explain the activity: Use the dictionary entries and context clues to match each underlined word to the meaning used in the passage. Write beside each word the meaning that is used in the sentence.

Check & Reteach

OBJECTIVE: Use Context to Determine Word Meanings

Review students' lists to check if they are able to determine the correct meanings. If students have difficulty identifying the correct meanings of the multiple-meaning words, model determining the meaning of look. The words a quick tell me that look is a noun in this sentence. That means the noun meaning "a glance" is used in the sentence.



Review and Integrate Ideas

2 Identify Main Ideas

Explain to students that they will identify several main ideas in each of the three selections they have read. Create a main ideas chart for "What's Faster Than a Speeding Cheetah?" and model completing the first entry.

Have partners recreate and complete the chart. Then have partners create and complete a similar chart for "Building for Space Travel" and "Ask an Astronaut!".

Selection	Main Ideas	Locations
"What's Faster Than a Speeding Cheetah?"	 A human cannot run as fast as an ostrich or a cheetah. 	page 434paragraph 1sentence 1
	• If you want to travel to the moon, you will need a rocket ship.	page 437paragraph 2sentence 1
ham	~~~	

Review and Compare

Math Article, Science Report, and Astronaut Blog

Daily Language Arts

Daily Spelling and Word Work Test page T445i

Daily Grammar 🌠

Have students find the comparison adverb *faster* in the first paragraph on **Anthology** page 441. Then use page T445I to review comparison adverbs.

Daily Writing Skills 🌠

Point out the first two short sentences in the first answer on **Practice Master PM7.13**. Use page T445n to review how to break up long sentences in writing.

Differentiate

EL English Learners

ISSUE Students lack the language proficiency to state their opinions on scientific topics such as space travel.

STRATEGY Provide sentence frames.

- I think space travel is interesting because
- I think space travel is important because

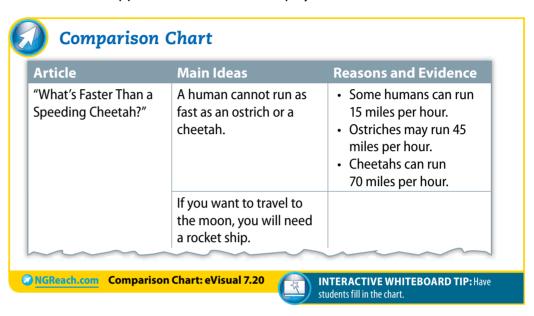
AL Above Level

ISSUE Students produce formulaic text when writing their opinions.

STRATEGY Remind students that a sentence that states an opinion may appear in a variety of positions in a paragraph. Suggest some interesting ways to begin the paragraph, with the opinion statement coming a bit later in the text.

3 Compare Support for Main Ideas

Explain that students will now compare how the authors of "What's Faster Than a Speeding Cheetah?," "Building for Space," and "Ask an Astronaut!" used evidence and reasons to support their main ideas. Display **eVisual 7.20**.



Explain: Choose main ideas from your chart to complete this comparison chart. Model identifying how an author uses reasons and evidence to support one of the main ideas in "What's Faster Than a Speeding Cheetah?" Have students recreate, expand, and complete the chart.

Facilitate a discussion comparing the ways authors used reasons and evidence to support main ideas. Ask questions, such as: Which reasons and evidence best helped you understand the text? Which reason or evidence interested you most?

Check & Reteach

OBJECTIVE: Compare Support for Main Ideas

Review students' charts to check if they are able to identify reasons and evidence. If students have difficulty, prompt with questions, such as: What sentence explains more about the main idea? What information does the sentence add about the main idea?

Writing

4 Write and Support Opinions

Introduce the activity: What do you think about space travel? Should people continue to explore space? Write your opinions and support them with reasons and evidence. Have students write and share paragraphs and add them to their Weekly Writing folders.

See Differentiate

Academic Talk

5 Relate Readings to the Big Question

Have students recall the unit's Big Question: What does it take to explore space? Remind students to plan for a discussion by reviewing the week's selections and their writing assignments. Tell students that they will discuss the challenges of space exploration.

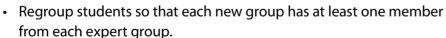
Explain: Think about "What's Faster Than a Speeding Cheetah?," "Building for Space Travel," "Ask an Astronaut!," and a **Small Group Reading** book you have read. How did those selections show what it takes to explore space?



Model a response to the question for "Building for Space Travel." I remember that the architect of TransHab had to consider a lot of different things when she was building the module. She had to do a lot of planning to make sure that it worked the way it was supposed to work. I think it takes a lot of planning and hard work to explore space. Add the idea to the unit concept map.

Use a **Jigsaw** to have students continue discussion about how the readings relate to the Big Question.

- Group students evenly into "expert" groups.
- Assign a specific aspect of the Big Question to each group.
 Possibilities:
 - what it takes to plan a long space mission
 - what the challenges of a space mission are
 - · what it takes to serve as an astronaut
 - what it's like to live in space



• Have experts report on their discussions. Other students learn from the experts.



Jigsaw

Form small groups. Have each group create a list of three qualities that they believe good astronauts should possess. Have groups share their lists with the class. Then let students vote, with a show of hands, on what they think the three most important qualities are.

Best Practices

Model Academic Language If student discussions use too much informal language, model a scientific conversation with two students. Encourage students to use words from the readings, such as *force, gravity,* and *shuttle*. Then have students practice using scientific terms in small groups.

\mathbb{W} eek $oldsymbol{2}$ Writing Project

OBJECTIVES

Thematic Connection: Moon, Space, and Stars Write an Informational Essay: Fluency

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Writing Rubric: Assessment Master A7.41

TECHNOLOGY ONLY

Sample Informational Essay: eVisual 7.13

Fluency: eVisual 7.14

Magazine Maker

SUGGESTED PACING

Study a Model DAY 1

DAY 2 Prewrite

DAY 3 Draft

DAY 4 Revise/Edit and Proofread

Publish and Present DAY 5

Write an Informational Essay

Display and read aloud the prompt.

You are part of the team that helped design TransHab. The Space Program Director at NASA has asked you to write an informational essay about TransHab for schoolchildren.

Study a Model

Read an Informational Essay

Explain: Let's read one student's essay. Display and read aloud eVisual 7.13.



Sample Informational Essay

What Is TransHab?

TransHab is a space vehicle that will also be a home for astronauts who must travel long distances. For example, a trip to Mars could last for years.

The plan was for space shuttles to carry TransHab into space. So it had to be made small enough to fit on board. The designer decided to make TransHab inflatable, with a very tough outer skin. This protects the vehicle and the astronauts.

Inside, TransHab includes different levels where astronauts can eat, sleep, exercise, work, and have fun. It has a bathroom, too, of course! Furniture is attached so it does not float around in zero gravity. With these features, TransHab will allow astronauts to live more comfortably during their long trips to Mars.

NGReach.com

Sample Informational Essay: eVisual 7.13



INTERACTIVE WHITEBOARD TIP: Place slashes between sentences to emphasize sentence breaks.

Review the Trait: Fluency

Remind students of the importance of fluency in writing: When sentences flow, your writing is easier to read and understand. Display and read aloud eVisual 7.14.



Writing Trait: Fluency

Sentences that are fluent:

- are composed of well-chosen words that support the topic
- are neither too short nor too long
- sound natural when read aloud.

NGReach.com Sentence Fluency: eVisual 7.14



Write the following sample. Ask students to break up the long sentence: Living space inside TransHab is not too big because TransHab was designed to fit inside a space shuttle, but it is large enough so people can still work and live inside TransHab too.

COMMON CORE STANDARDS

Writing

Write Informative/Explanatory Text to Examine a Topic Introduce a Topic and Group Related CC.4.W.2.a Information in Paragraphs and Sections Develop the Topic CC.4.W.2.b Plan, Revise, and Edit Writing CC.4.W.5 Write Over Extended Time Frames CC.4.W.10

for Specific Tasks, Purposes, and Audiences

Language and Vocabulary Demonstrate Command of Grammar CC.4.L.1 **Produce Complete Sentences** CC.4.L.1.f Use Knowledge of Conventions CC.4.1.3

Prewrite

Choose a Topic

Reread the first sentence of the prompt. Ask: What is your role? (part of the team that designed TransHab) Continue with the remainder of the prompt in order to determine the Role, Audience, and Form for the RAFT.

Role: Architect

Audience: Schoolchildren Form: Informational Essay

Have students look at Magazine Maker photos of space. Encourage them to choose one or two photos to go with their informational essays. Then have students individually complete the RAFT.

Magazine Maker

Get Organized

Review the sample: Like many informational essays and reports, "What Is

TransHab?" has a main idea and several related details. Display a main idea diagram and review: A main idea diagram can help you structure your writing. Model using facts from "What Is TransHab?" to complete the main idea diagram.

Detail: can be	Detail: has tough outer	Detail: includes differen
transported in space	skin for protection	levels for living

Main Idea Diagram

Have students create their own main idea diagrams to help them plan their informational essays.

Draft

Write Ideas

Allow students adequate class time to plan, organize, and write their drafts. When they have finished writing the text of their informational essays, instruct students to experiment with page layouts and photographs for their essays using **Magazine Maker**. Remind students to focus on sentence length as they write their informational essays.

See **Differentiate**

Differentiate

AL Above Level

ISSUE Students are not adequately challenged by the activity.

STRATEGY Have students create their own visuals to accompany their informational essays. Suggest that students make diagrams of TransHab, complete with labels and explanations.

Week 2 Writing Project



Daily Language Arts

Daily Spelling and Word Work 🗹

Practice pages T445i-T445j

Daily Grammar 🗹

Have students find examples of comparison adverbs in the sample "The First Moon Landing" (greatest) or in "Building for Space Travel" on pages 447–451 of the **Anthology**. Use pages T445k-T445l to practice using comparison adverbs.

Daily Writing Skills 🌠

Point out the length and structure of sentences within the stories and passages in the **Anthology**. Then use pages T445m-T445n to practice breaking up long sentences into concise, well-organized sentences.

Revise

Read, Retell, Respond

Have students read aloud their drafts to partners. Have listeners retell important ideas from the essay and offer ideas to improve the fluency. Display language frames to guide the discussion.

Language Frames	
Retell	Make Suggestions
You said that the design of TransHab	The sentences about flowed well together.
You also explained	Could you vary the sentence lengths in the part about ?

Make Changes

Have students revise their writing. Remind them to break up long sentences into shorter, more concise sentences to improve fluency. As they revise their informational essays, remind students to make sure their sentences are well-organized.

Demonstrate how students can upload their own photographs in Magazine Maker: Select My Photos and click the Upload button. Import a photo from the correct location on the computer, then move, edit, and crop the photo as necessary.

See Differentiate

Differentiate

EL English Learners

ISSUE Since students are only comfortable using very simple sentence structures, they are confused by the idea of shortening some sentences.

STRATEGY Work with students to create compound and complex sentences. Explain that the overall goal in producing fluent writing is to use a variety of sentence types.

Student Sample: Revise

TransHab is a space vehicle that will also be a home for astronauts who must travel long distances, like the astronauts who will travel to Mars for several years.

What is TransHab?

The plan was for space shuttles to carry TransHab into space. So it had to be made small enough to fit on board. The desiner decided to make TransHab inflatable, with a tough outer skin. This protects the vehicle and the astronauts. The astronauts have a right to not be afraid while traveling. \downarrow

Sample Analysis

This sentence looks way too long. It doesn't sound natural when I read it aloud. I will break into two shorter sentences.

This last sentence doesn't really fit with the rest of the essay or support the topic. I will delete it to improve the fluency of the essay.



Edit and Proofread

Check the Informational Essay

Have students check their grammar and spelling, focusing on the Week 2 spelling words and on the proper use of comparison adverbs.

Student Sample: Revise

The plan was for space shuttles to carry TransHab into space. So it had to be made small enough to fit on board. The desiner decided to make TransHab inflatable, with a tough outer skin. This protects the vehicle and the astronauts.

Inside, TransHab includes different levels where astronauts can eat, sleep, exercise, work, and have fun. It has a bathroom, too, of course! Furniture is attached so it does not float around in zero gravity. With these features, TransHab will allow astronauts to live well during their long trips to Mars. I

Sample Analysis

I misspelled designer. I will fix that.

The idea of living well doesn't mean much. I think I'll use a comparison adverb like "more comfortably" here.

Publish and Present

Make a Final Copy

Encourage students to try formatting their essays in Magazine Maker to resemble a magazine or newspaper article. Have students add titles to their writing and print their work.

Share with Others

Model reading with expression and intonation. Then ask volunteers to read their informational essays aloud for the class.

Have students make additional copies of their writings and add them to their Weekly Writing folders. Use the Writing Rubric to assess each student's informational essay.

Student Sample: Publish



TransHab is a space vehicle that will also be a home for astronauts who must travel long distances. For example, a trip to Mars could last

The plan was for space shuttles to carry TransHab into space. So it had to be made small enough to fit on board. The designer decided to make TransHab inflatable, with a very tough outer skin. This protects the vehicle and the astronauts.

Inside, TransHab includes different levels where astronauts can eat, sleep, exercise, work, and have fun. It has a bathroom, too, of course! Furniture is attached so it does not float around in zero gravity. With these features, TransHab will allow astronauts to live more comfortably during their long trips to Mars.

Writing Rubric

NGReach.com Assessment Master A7.41

Week 2 Assessment & Reteaching

= TESTED

Assess

OBJECTIVES

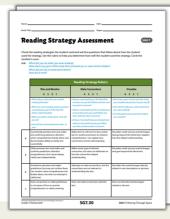
Reading

- ☑ Draw Conclusions to Comprehend Text
- **Explain Concepts in Text**
- Explain Uses of Reasons and Evidence

ASSESSMENTS







Reading Comprehension Test A7.11–A7.12

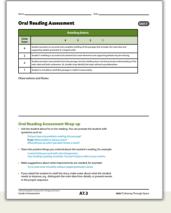
Reading Strategy Assessment SG7.30–SG7.31

Fluency

- **Intonation**
- Accuracy and Rate





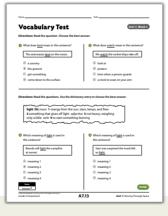


Oral Reading Assessment A7.1–A7.3

Use these passages throughout Unit 7. Work with On Level students this week.

Vocabulary and Spelling

- ✓ Use Context to Determine Word Meanings
- Spell Words with oo: book, good; Words with Silent Consonants
- ☑ Use Commonly Misspelled
 Words Correctly





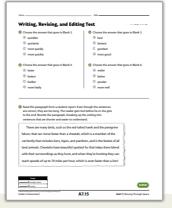
Vocabulary Test A7.13

Spelling Pretest/ Spelling Test T445i

Grammar and Writing

- **☑** Use Comparison Adverbs
- **☑** Break Up Long Sentences







Writing, Revising, and Editing Test A7.14–A7.15

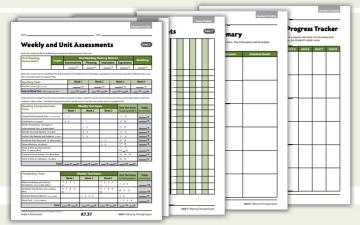
Writing Rubric A7.41





Reteach and Practice

REPORTS



RESOURCES AND ROUTINES

Reading

RETEACH

Explain Scientific Text: Reteaching Master RT7.3 Fact and Opinion: Reteaching Master RT7.4 **Synthesize: Reteaching Master RT7.5**

ADDITIONAL PRACTICE

PRINT & ONLINE

Report Forms

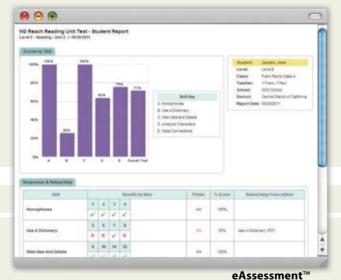
Student Profile: Weekly and Unit Assessments A7.37-A7.38 Class Profile: Weekly and Unit Assessments A7.39 Student Profile: Strengths and Needs A7.40 Student Profile: Oral Reading Progress Tracker A1.3

Fluency

RETEACH

Fluency Routines, page BP33

ADDITIONAL PRACTICE



Vocabulary and Spelling

RETEACH

Vocabulary Routine 6, page BP40

Spelling and Word Work Routine, page BP52

ADDITIONAL PRACTICE

Daily Spelling Practice, pages T445i-T445j

RETEACH

Adverbs: Anthology Handbook, page 609 Writing: Reteaching Writing Routine, page BP51 Writing Trait: Sentence Fluency: Reteaching Master

RT7.6

ADDITIONAL PRACTICE

More Grammar Practice PM7.16

Grammar and Writing

Daily Writing Skills Practice, pages T445m-T445n

ONLINE ONLY

Automated Reports

Student Profile: Weekly and Unit Tests Class Profile: Weekly and Unit Tests **Standards Summary Report**

Week 3 Planner



☑ = TESTED		Day 1	Day 2
WHOLE GROUP TIME Listen and Comprehend		Listen and Comprehend	Read and Comprehend
	Speaking and Listening 5-10 minutes	Academic Talk Clarify T454 CC.4.SL.1.c	Academic Talk CC.4.SL.4; CC.4.SL.6 Report on a Concept T456a
	Language and Vocabulary 20 minutes	Daily Spelling and Word Work CC.4.Rfou.3; Words with VCV, VCCV Patterns T453s CC.4.L.2; CC.4.L.2.d; CC.4.L.4.c CC.4.L.1; CC.4.L.1.a; CC.4.L.3 Relative Adverb when T453u Science Vocabulary CC.4.Rlit.4; CC.4.Rinf.4; Learn Key Words T454 astronaut launch orbit planet rotation CC.4.Rfou.3; CC.4.Rfou.3; CC.4.L.1.g; CC.4.L.1.a; CC.4.L.1.a; CC.4.L.3 CC.4.L.1.a;	Daily Spelling and Word Work ✓ Practice T453s CC.4.Rfou.3; CC.4.Rfou.3.a; CC.4.L.2.d Daily Grammar ✓ CC.4.L.1; CC.4.L.1.a; CC.4.L.3 ✓ Relative Adverbs where, why T453u Academic Vocabulary ✓ CC.4.Rlit.4; CC.4.Rinf.4; ✓ Learn More Key Words T456a Capacity constant limit resistance technology
Anthology	Reading 20–40 minutes	Reading Read Aloud: Realistic Fiction T455a Comprehension Comprehend Plot T445a CC.4.Rlit.10 CC.4.Rlit.10 CC.4.Rlit.10 CC.4.Rlit.10 CC.4.Rlit.10	Reading Read Realistic Fiction; Read and Build Comprehension T459 Comprehension ✓ Synthesize T458 CC.4.Rlit.10 ✓ Fluency CC.4.Rfou.4
		Model Expression T455a	✓Practice Expression T458
	Writing 15–45 minutes	Power Writing T454 CC.4.W.10 Daily Writing Skills CC.4.W.3.e ✓ Use a Concluding Sentence T453w Writing CC.4.W.10 Write to Retell T456	Power Writing T456a CC.4.W.10 Daily Writing Skills CC.4.W.3.e ✓ Use a Concluding Sentence T453w Writing CC.4.W.10 Write Generalizations T458–T459
		Writing Project: Original Story CC.4.W.3; CC.4.W.3.a; Study a Model T477a CC.4.W.3.e; CC.4.W.5; CC.4.W.10; CC.4.L.1; CC.4.L.1.a; CC.4.L.3	Writing Project: Original Story CC.4.W.3; CC.4.W.3.a; Prewrite T477b CC.4.W.3.e; CC.4.W.5; CC.4.W.10; CC.4.L.1; CC.4.L.1.a; CC.4.L.3

SMALL GROUP READING TIME

Fiction & Nonfiction

20 minutes

Read Science Articles

Vocabulary CC.4.L.6 Learn Science Vocabulary SG17

Reading

Comprehend Visual CC.4.Rinf.7 Information SG16

Build CC.4.Rinf.10 Comprehension SG17



Read Fiction Books

Vocabulary CC.4.L.6 Learn Story Words SG18–SG19

Reading CC.4.Rlit.1; CC.4.Rlit.2; Introduce CC.4.Rlit.10; CC.4.SL.4

Read and Integrate Ideas SG20–SG21

SG18-SG19

Form Generalizations SG20–SG21
Comprehend Plot SG20–SG21



LEARNING STATION TIME



20 minutes



 Speaking and Listening T453q
 CC.4.SL.1.d; CC.4.SL.2

 Language and Vocabulary
 T453q
 CC.4.L.6

 Writing T453q
 CC.4.SL.4; CC.4.W.3.b

 Cross-Curricular T453r
 CC.4.SL.4; CC.4.W.7; CC.4.W.8

 Reading and Intervention T453r, SG68
 CC.4.Rfou.3.a; CC.4.Rfou.4; CC.4.Rfou.4.b; CC.4.Rfou.4.b

Big Question What does it take to explore space?

Day 3	Day 4	Day 5
Read and Comprehend	Read and Comprehend	Review and Apply
Academic Talk Preview and Predict T460 CC.4.Rfou.4.a	Academic Talk CC.4.Rlit.2 Summarize Reading T470	Academic Talk CC.4.Rlit.1 Talk About It T476
Daily Spelling and Word Work CC.4.Rfou.3; CC.4.Rfou.3.a; Practice T453t CC.4.L.1.g; CC.4.L.2 Daily Grammar CC.4.L.1; CC.4.L.1.a; CC.4.L.3 Review Relative Adverbs T453v Vocabulary Practice CC.4.L.6 Expand Word Knowledge T460	Daily Spelling and Word Work CC.4.Rfou.3; CC.4.Rfou.3.a; ✓ Practice T453t CC.4.L.2; CC.4.L.4.c Daily Grammar CC.4.W.5; CC.4.L.1; CC.4.L.1.a; ✓ Edit and Proofread T453v CC.4.L.3 Vocabulary Practice CC.4.L.6 ✓ Share Word Knowledge T470	Daily Grammar CC.4.L.1; CC.4.L.1.a; CC.4.L.3 ✓ Review and Assess T453v Vocabulary Review CC.4.L.6 ✓ Apply Word Knowledge T475b
Reading Read Realistic Fiction T461–T467 Comprehension CC.4.Rinf.1 Comprehend Plot T466–T467 Form Generalizations T466–T467 Identify Dialogue CC.4.Rinf.1	Reading Read Realistic Fiction T470—T475 Comprehension ✓ Comprehend Plot T472—473 ✓ Form Generalizations C.4.Rfou.4.a T472—473	Reading Read Realistic Fiction T461–T475 Comprehension CC.4.Rlit.2 Comprehend Plot T476a
T464–T465 Fluency CC.4.Rfou.4; CC.4.Rfou.4.b ✓ Practice Expression, Accuracy, and Rate T462–T463	Fluency CC.4.Rfou.4; ✓ Practice Expression, Accuracy, CC.4.Rfou.4.b and Rate T471	Fluency CC.4.Rfou.4.b ✓ Check Expression, Accuracy, and Rate T477
Power Writing T460 CC.4.W.10 Daily Writing Skills CC.4.W.3.e ✓ Use a Concluding Sentence T453x Writing CC.4.W.10; CC.4.L.2; Write Dialogue T468–T469 CC.4.W.3; CC.4.W.3.a; Draft T477b CC.4.W.3.e; CC.4.W.5; CC.4.W.10; CC.4.L.1; CC.4.L.1.a; CC.4.L.3	Power Writing T440 CC.4.W.10 Daily Writing Skills CC.4.W.3.e ✓ Use a Concluding Sentence T453x Writing CC.4.W.10 Artist's Craft T475a Writing Project: Original Story CC.4.W.3; CC.4.W.3.a; Revise; Edit and CC.4.W.3.e; CC.4.W.5; CC.4.W.10; Proofread T477c–T477d CC.4.L.1; CC.4.L.1.a; CC.4.L.3	Power Writing T475b CC.4.W.10 Daily Writing Skills CC.4.W.3.e ✓ Use a Concluding Sentence T453x Writing CC.4.W.10 Write About It T476 Writing Project: Original Story CC.4.W.3; CC.4.W.3.a; Publish and Present CC.4.W.3.e; CC.4.W.5; CC.4.W.10; T477d CC.4.L.1; CC.4.L.1.a; CC.4.L.3
Read Fiction Books	Read Fiction Books	Read Fiction Books
Vocabulary CC 41.6	Vocabulary CC 41.6	Vocabulary CC 41.6

Vocabulary CC.4.L.6 Learn Story Words SG18–SG19

Reading CC.4.Rlit.1; CC.4.Rlit.2; Introduce CC.4.Rlit.10; SG18-SG19 CC.4.SL.4

Read and Integrate Ideas SG20-SG21

Form Generalizations SG20–SG21 ✓ Comprehend Plot SG20–SG21



Vocabulary CC.4.L.6 **Learn Story Words**

SG18-SG19

Reading CC.4.Rlit.1; CC.4.Rlit.2; CC.4.Rlit.10; CC.4.SL.4 Introduce SG18-SG19

Read and Integrate Ideas SG20-SG21

Form Generalizations SG20–SG21 Comprehend Plot SG20-SG21

Vocabulary CC.4.L.6 **Expand Vocabulary** Through Wide Reading SG18-SG21

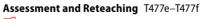
Reading CC.4.Rlit.10 **Connect Across Texts**

SG21

Writing CC.4.W.10 Choose a Writing Option SG20-SG21



ASSESSMENT & RETEACHING



Reading Comprehension Test A7.16–A7.17 CC.4.Rinf.1; CC.4.Rinf.2 Reading Strategy Assessment CC.4.Rlit.10

SG57-SG58

✓Oral Reading Assessment A7.1–A7.3 CC.4.Rfou.4.a Vocabulary Test A7.18–A7.19 CC.4.L.b; CC.4.L.6 Spelling Test: Words with VCV, CC.4.Rfou.3; VCCV Patterns T453s CC.4.Rfou.3.a; CC.4.L.1.g; CC.4.L.2; CC.4.L.2.d; CC.4.L.4.c

Writing, Revising, and Editing Test CC.4.W.10; CC.4.L.1; A7.20-A7.21 CC.4.L.3 Reteaching Masters RT7.7-RT7.9



Week 3 Learning Stations

Speaking and Listening

Option 1: Give an Example 🟋



PROGRAM RESOURCES

Language and Literacy Teamwork Activities:

Teacher's Guide on **ONGReach.com**

Review Key Ideas and Explain Ideas and Understanding

CC.4.SL.1.d

Option 2: Restate Moon Facts



Have students view a video about the Moon and restate the facts they learn in sequential order. To view the video, have students go to Resources > Unit 7 > Learning Stations > Week 3 > Moon 101.

After restating the facts, have students discuss how the images in the video added to their understanding of the facts.

Paraphrase Text, Visual, and Oral Information CC.4.SL.2

Language and Vocabulary

Kev Words

astronaut capacity clarify constant generalization launch limit orbit planet resistance rotation technology

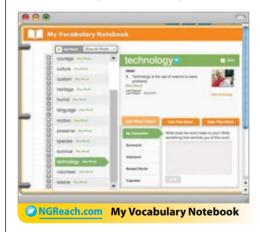
Option 1: Vocabulary Games X



Acquire and Use Conversational, General Academic, and Domain-Specific Words

CC.4.L.6

Option 2: My Vocabulary Notebook 🟋



Have students expand their word knowledge.

- Under Add More Information > Use This Word > Restate the Definition, have students use their own words to restate definitions of the Key Words.
- Under Add More Information > Use This Word > Write a Sentence, have students write sentences that include relative adverbs such as when, where, and why.

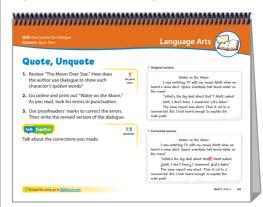
Acquire and Use Conversational, General Academic, and Domain-Specific Words

CC.4.L.6

Writing

Option 1: Quote, Unquote





PROGRAM RESOURCES & MATERIALS

Language and Literacy Teamwork Activities:

Teacher's Guide on **QNGReach.com Student Resources Directory**

list of proofreaders' marks (optional)

Demonstrate Command of Punctuation

CC.4.L.2

Option 2: What Would You Say?



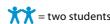
"Did you ever think that you would see a person walking on the moon?" I asked Gramps. "To be honest, I never did," said Gramps. "It's the most amazing thing I've ever seen."

Have students reread Anthology pages 472-473 of "The Moon Over Star." Then display the writing prompt:

Imagine that you are talking to Gramps after the moon landing. What would you say? Rewrite the dialogue in the scene that you just read. Be sure to use correct punctuation and capitalization.

Encourage students to read their finished dialogue to a partner.

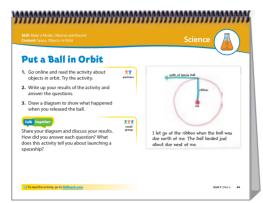
CC.4.W.3.b **Use Dialogue**





Cross-Curricular

Option 1: Put a Ball in Orbit



PROGRAM RESOURCES & MATERIALS

Cross-Curricular Teamwork Activities: Card 44

Teacher's Guide on **ONGReach.com Student Resources Directory**

ribbon • tennis balls • colored markers

Conduct Research	CC.4.W.7
Gather Information	CC.4.W.8
Recount an Experience	CC.4.SL.4

Option 2: How Does Space X **Research Affect People?**

Did you know that the technology for batterypowered tools was first created to help astronauts?

MATERIALS

encyclopedia • library books • online resources

Have students use library and online resources to learn about ways that people have benefited from NASA's space research.

Each student should focus on one helpful product or technology that was developed for the space program.

Have students share their research findings in small groups.

Conduct Research CC.4.W.7

Reading

Option 1: Comprehension Coach 🟋



Read and Comprehend Literature	CC.4.Rlit.10
Read with Accuracy and Fluency to	
Support Comprehension	CC.4.Rfou.4
Read Orally with Accuracy and	
Appropriate Rate on Successive	
Readings	CC.4.Rfou.4.b

Option 2: Author Study X

Dianna Hutts Aston

Comparison Chart

	Headings	Illustrations	Captions
Title			
Title			

MATERIALS

books by Dianna Hutts Aston, such as A Butterfly Is Patient, Dream Something Big, An Egg Is Quiet, and A Seed Is Sleepy

As students read multiple books over the week, have them develop the comparison chart.

Then have partners use their charts to discuss the similarities and differences in the books, including features such as headings, illustrations, and captions.

Students may wish to select from additional recommended books. See Independent **Reading** on page SG68.

Read and Comprehend Informational Texts CC.4.Rlit.10

Intervention

Option 1: Phonics Games 🕺



CC.4.Rfou.3 Apply Phonics and Word Analysis Skills Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words CC.4.Rfou.3.a

For Reteaching Masters, see pages RT7.7-RT7.9.

Additional Resources

Reach into Phonics ***



Lessons 109 and 110

Use Context to Confirm or Self-Correct Word Recognition and Understanding

CC.4.Rfou.4.c

ESL Kit XXX



ESL Teacher's Edition pages T454-T477

Week 3 Daily Spelling & Word Work

OBJECTIVES

Thematic Connection: Exploring Space

Spell Words with VCV, VCCV Patterns

Use Commonly Misspelled Words Correctly

SUGGESTED PACING

DAY 1 Pretest

Daily Practice Options DAY 2-4

DAY 5

Spelling Pretest

Spelling Test

Day 5

XXX

Spelling Words

Use these words and sentences for the weekly Spelling Pretest and Spelling Test.

Words with V	CV, VCCV Patterns
1. cluster	Is that group, or <i>cluster</i> , of stars a constellation?
2. commander	She is in charge of the flight because she is the commander .
3. future	Scientists predict what space exploration will be like in the <i>future</i> .
4. goggles	Early aviators wore goggles to protect their eyes when they flew planes.
5. helium	Helium gas inside the balloon causes it to rise.
6. helmet	We cannot see the astronaut's face behind her space suit helmet .
7. lunar	I would like to be part of a <i>lunar</i> landing and walk on the moon!
8. massive	Some objects in space are small, but others are <i>massive</i> .
9. pilot	The pilot flew the plane through storm clouds.
10. platform	The astronaut stood on a wooden platform so the crowds could see her.
11. public	Is all the data about the flight public , or is some of the information secret?
12. seldom	I seldom read science fiction stories, but my friend reads them all the time.
13. signal	My brother whistled, and that was the signal to go outside and see the full moon.
14. tablet	I wrote notes about the rocket launch on a <i>tablet</i> .
15. vapor	Thin clouds crossed the moon like a white <i>vapor</i> .
Watch-Out W	ords
16. missed	We missed the liftoff because we were stuck in a traffic jam.
17. mist	The cars were backed up because of fog and mist .
18. sail	The wind catches the boat's sail and moves it through the water.

The sailboat is expensive, so I'll buy it when it goes on **sale**.

VCV Pattern XX Option 1 Day 2

MATERIALS

index cards, 5 per pair of students • highlighters • scissors • tape

Teach

Display the word vapor. Circle a and pronounce the word. If the first vowel sound in a word is long, you usually divide the word after that vowel.

Prepare

- Have pairs of students collaborate to write each of these words on a separate card, leaving room to cut between each letter: future, helium, lunar, pilot, vapor.
- Tell students to highlight the first vowel in each word.
- Have pairs cut each word in two after the first vowel, scramble the cards, and lay them out in a grid pattern with the words facing down.

Play a Game



- Have partners alternate turning cards. As each card is turned over, the other partner suggests and spells the missing part to recreate a spelling word. Partners will spell words twice as they find both parts.
- Then have students tape the cards back together, divide them equally between both partners, and alternate reading words for the other to spell.

Apply Phonics and Word Analysis Skills	CC.4.Rfou.3
Use Letter-Sound Correspondences, Syllabication Patterns,	
and Morphology to Read Multisyllabic Words	CC.4.Rfou.3.a

Word Scramble Day 2 XXX Option 2

MATERIALS

scissors • print or online dictionary, 1 per student • timer

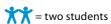
Prepare

- Assign four to seven different spelling words depending on group size to each student. Make sure that each spelling word is assigned.
- Have students print each word with room to cut between letters. Have each student cut words into letters, and mix letters together.

Play a Game

- · Have students exchange piles of letters and reassemble as many words as they can in a designated time period, using a dictionary if needed.
- Tell students that each correct spelling scores one point.
- Have students trade letters with a new partner and play again.

CC.4.L.2.d Spell Grade-Appropriate Words





19. sale



VCCV Pattern

Option 1

MATERIALS

large sheets of white paper, 10 per group • black markers • tape • yardstick

Teach

Display helmet, circle the letters lm, and pronounce the word. Explain: When two consonants come between two vowels, you usually divide the word between the two consonants.

Prepare

Have groups make word signs. Tell them to print each of these words in large letters on a separate sheet of paper: cluster, commander, goggles, helmet, massive, platform, public, seldom, signal, tablet.

Play a Game

- Have a group member choose a word sign and tape it on the board.
- Have another use a yardstick to show where to syllabicate the word.
- Have other group members decide if the word is syllabicated correctly, directing the student to move the yardstick if necessary. If group members cannot agree, have them consult a dictionary.
- · After the word is syllabicated correctly, have the first student remove the sign and call out the word for the group to spell chorally.
- Have students take turns and continue until all words have been syllabicated and correctly spelled.

Apply Phonics and Word Analysis Skills Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words

CC.4.Rfou.3

CC.4.Rfou.3.a

Word Hints

Day 3



Option 2

Create Memory Aids

Have individuals produce creative hints to aid memory of each Watch-Out Word. For example:

- Students can write the word *mist* in little dots to represent mist.
- Students can write the word sale with a dollar sign for the letter s.



Use Frequently Confused Words Demonstrate Command of Spelling CC.4.L.1.g CC.4.L.2

Sort Patterns

Day 4

XX

Option 1

MATERIALS

colored pencils • index cards, 15 per pair

Prepare

- Have partners draw two pictures. Each picture shows an item whose name represents one of the patterns, such as a raven (VCV longvowel sound), and a cactus (VCCV).
- Tell students to label their pictures.
- Have partners collaborate to write each of the first 15 spelling words on a separate card.

Play a Game

- Have partners arrange the drawings in a row on a table, and put the cards face up in a stack.
- Have students take turns placing a word card beneath the drawing with the matching pattern. For example, the *lunar* card would be placed by a drawing of a raven.
- After all the cards have been placed, have one partner take the VCV cards, and have the other partner take the VCCV cards.
- · Have partners alternate reading a word aloud. The listener spells the word and uses it in a sentence.

Apply Phonics and Word Analysis Skills Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words

CC.4.Rfou.3

CC.4.Rfou.3.a

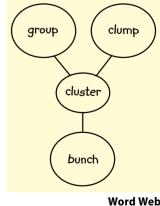
Word Webs Day 4 XXX Option 2

MATERIALS

print or online thesaurus

Use Graphic Organizers

- · Have students collaborate to make a separate Word Web for each of these words: cluster, commander, massive, mist, pilot, platform, seldom, signal, tablet, vapor.
- Have students write the spelling word in the center of the web.
- Have students use a thesaurus to find synonyms to add to the web. Have them discuss how synonyms help them understand the word.
- Have students use each spelling word in a sentence.



Demonstrate Command of Spelling Consult References

CC.4.L.2 CC.4.L.4.d

Week 3 Daily Grammar

OBJECTIVES

Thematic Connection: Exploring Space

Grammar: Use Relative Adverbs

COMMON CORE STANDARDS

Edit Writing

Demonstrate Command of Grammar **Use Relative Adverbs**

CC.4.W.5 CC.4.L.1 CC.4.L.1.a

Day 1

PROGRAM RESOURCES

MATERIALS

Relative Adverb when: eVisual 7.22

brads • large paper clips

Game: Practice Master PM7.18

Teach the Rules

Use the suggestion on page T456 to review independent and dependent clauses and to introduce the relative adverb when. Explain: A relative adverb relates a dependent clause to a noun in the main clause. Then display eVisual 7.22.

Relative Adverb when

• A clause that begins with **when** is a **dependent clause**. The clause gives time details about a **noun or pronoun** in the main clause. When is a relative adverb.

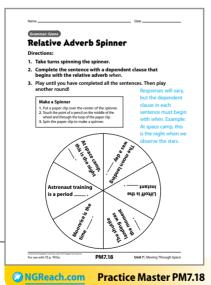
Monday is the day when the shuttle lifts off.

NGReach.com Relative Adverb when: eVisual 7.22

Point to the parts of the sentence as you explain: In this sentence, the dependent clause tells more about the noun day.

Play a Game XXX

Have small groups use Practice Master PM7.18 to play a game. Tell students to follow the directions on the Practice Master.



Differentiate

SN Special Needs

ISSUE Students are overwhelmed by the spinner and sentences in circle segments.

STRATEGY Display the sentences in a simple list for students. Have students choose a sentence on the list by pointing without looking and proceed with the game as described on the **Practice Master**.

Day 2

PROGRAM RESOURCES

Relative Adverbs where, why: eVisual 7.25

Teach the Rules

Use the suggestion on page T459 to introduce the relative adverbs where and why. Then display eVisual 7.25 and review that a relative adverb introduces a dependent clause.

Relative Adverbs where, why

• A clause that begins with **where** is a **dependent clause**. The clause gives location details about a **noun of place** in the main clause. Where is a relative adverb.

Level Two is the area where the astronauts sleep.

• A clause that begins with **why** is also a **dependent clause**. The clause gives details about the **noun** *reason* in the main clause. Why is a relative adverb.

A mechanical problem was the **reason** why the launch was cancelled.

NGReach.com Relative Adverbs where, why: eVisual 7.25

Generate Sentences X

Have students apply the grammar skills as they write sentences:

- Pretend you are an astronaut training to go into space. Write two sentences with the relative adverb where.
- Now write two sentences with the relative adverb why.

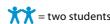
For **Writing Routine 3**, see page BP49.

Differentiate

AL Above Level

ISSUE Students are confused by the word *adverb* relating to a clause that modifies a noun instead of a verb.

STRATEGY Reinforce that in this type of sentence, the entire dependent clause acts as an adjective. Have students write sentences with relative adverbs, highlight the dependent clause, and draw an arrow from the highlighted clause to the appropriate noun.







Use Knowledge of Conventions

CC.4.L.3

Day 3

MATERIALS

highlighters

Teach the Rules

Use the suggestions on page T468–469 to review dependent clauses and the relative adverbs when, where, and why. Display the chart and have students suggest other examples.

Relative Adverb	What It Does	Example
when	relates to a noun of time	May is the month when we plant flowers.
where	relates to a noun of place	This is the shop where I got my bike.
why	relates to the noun <i>reason</i>	The flu is the reason why I could not come.

Play a Game XXX

Arrange the class into teams. Have each team write six independent clauses in the pattern _____ is the _____, as in the chart. Two should end with a noun of time, two with a noun of place, and two with the word reason. Then tell each team:

- Read your first independent clause aloud. The other team must add a dependent clause that begins with when, where, or why.
- If your team decides that the other team has responded correctly, that team gets a point.
- Take turns reading independent clauses and responding. The team with the most points at the end wins.

Differentiate

BL Below Level

ISSUE Students have difficulty identifying nouns of time or place.

STRATEGY Have groups brainstorm nouns of time and place. **Time:** parts of a year, day, or hour; specific holidays; and any time something can happen. Place: areas of Earth or outer space, places in your community or school, rooms in a home, and anywhere something can happen.

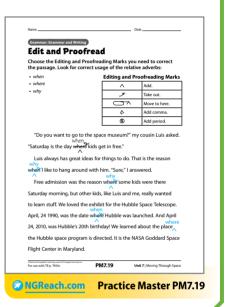
Day 4

PROGRAM RESOURCES

Grammar and Writing: Practice Master PM7.19

Grammar and Writing X

Distribute **Practice** Master PM7.19. Have students use editing and proofreading marks to correct errors with relative adverbs when, where, and why.



Day 5

PROGRAM RESOURCES

Writing, Revising, and Editing Test: Assessment Masters A7.20-A7.21

Review and Assess XX

Have pairs of students create a chart to review what they learned about the relative adverbs when, where, and why.

Have partners collaborate to create a three-column chart. Explain:

- In Column 1, list the relative adverbs when, where, and why.
- In Column 2, write the definition of each relative adverb in your own words.
- In Column 3 write two sentences for each relative adverb as examples of how the word is used in a sentence.

When students are finished, have each pair get together with another pair to compare and contrast their charts.

☑ Administer the Writing, Revising, and Editing Test.

Week 3 Daily Writing Skills

OBJECTIVES

Thematic Connection: Exploring Space

Use a Concluding Sentence

COMMON CORE STANDARDS

Provide a Conclusion

CC.4.W.3.e

Introduce Concluding Sentences Day 1



PROGRAM RESOURCES

Concluding Sentences: eVisual 7.23 Plot Diagram #1: eVisual 7.24

Teach the Skill

Display eVisual 7.23 and read the story aloud.



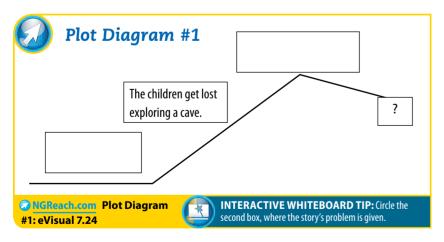
Concluding Sentences

Major Tom Elton was flying his final Space Shuttle mission. All was going smoothly on the return to Earth until the cabin lights began to flicker. It was an electrical short. To repair it meant going outside the spacecraft! Unless they returned to orbit, a repair was impossible. With the lights failing rapidly, he swung the spacecraft around. Once they were back in orbit, Co-Captain Silber steered the craft in the dimming lights while Tom worked feverishly outside. After several hours, bright light flooded the cabin and Tom re-entered the spacecraft.

⊘ NGReach.com Concluding Sentences: eVisual 7.23



Explain: Tom's problem is that his spacecraft has an electrical short. The concluding sentence makes it clear that the problem is resolved. It ties up the "loose ends."



Display eVisual 7.24. Explain that a plot diagram can help writers plan their stories. Model how this writer might come up with a conclusion: I ask myself, "What event could resolve the problem?" If the children find a flashlight and figure out how to use it, they can put out a signal for help. I can end with a sentence that tells how the parents see the signal. Have students suggest a concluding sentence for the story.

Identify Concluding Sentences Day 2

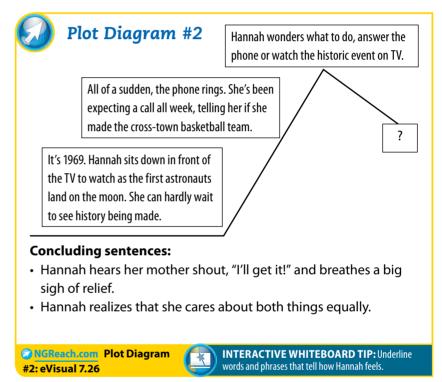
Option 1

PROGRAM RESOURCES

Plot Diagram #2: eVisual 7.26

Practice

Display eVisual 7.26. Have partners view the diagram and decide which of the sentences would make the better concluding sentence and why.



Write a Concluding Sentence

Day 2

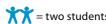
Option 2

Practice

Display and have partners discuss the story below and work together to develop a concluding sentence that resolves the story's problem.

Evan couldn't wait to visit the moon. He and his parents talked about what they would explore first. Everything was arranged, including a dog-sitter for their beagle, Barney. Two days before the trip, the dogsitter had to cancel. They couldn't leave Barney! How could they go on their trip? Then Dad had an idea.

Have pairs of students compare their sentences. Have each pair explain why their sentence provides a satisfying conclusion to the story.







SUGGESTED PACING

DAY 1 Teach the Skill DAY 2-4 Daily Practice Options DAY 5 Review and Assess

Concluding Sentence Dialogue Day 3



Option 1

Revise Concluding Sentences Day 4

MATERIALS

timer

Introduce

Review the importance of revision in writing. Have students discuss what they do when they revise their work. Then ask: What if you change a plot element in a story you have written? Why might you need to revise your concluding sentence?

Practice

Have students choose a piece of fiction from their Weekly Writing folders that needs additional revision. Set the timer for ten minutes and have students make their revisions. Have them pay special attention to their concluding sentences and determine whether they need revisions to make them more interesting, to reflect plot changes, or to tie together other story elements more effectively.

PROGRAM RESOURCES

Digital Library: Language Builder Picture Card E86

Introduce

Explain that concluding sentences can be as interesting as introductory sentences. Elaborate: An introductory sentence grabs readers' attention. A concluding sentence should be just as interesting. It should make readers feel satisfied about what they have read. Including dialogue in your concluding sentence is one way to create an interesting and exciting story conclusion.

Practice

Display the **Language Builder Picture Card** of zero-gravity training. Tell partners that they may either write a brief short story or fill in a plot diagram like the one displayed on Day 2. The story or plot diagram must be based on the image.

Tell them to include dialogue in their concluding sentence. If students need help writing a concluding sentence, provide the following possibilities:

_____," said ___ as (she/he) floated to the ceiling on (her/his) first shuttle flight. As the shuttle landed, ______ never forget ____

Discuss Concluding Sentences Day 3



Option 2



MATERIALS

a variety of short fiction passages

Introduce

Explain to students that studying a variety of concluding sentences can help them write better concluding sentences of their own.

Practice

Direct students to a few short stories they have already read. Have students identify the concluding sentence in each story. Ask: Which stories do you think have good concluding sentences? Why? Have students write notes about the concluding sentences they studied and then share their notes and examples with the class.

Review and Assess

PROGRAM RESOURCES Writing, Revising, and Editing Test: Assessment Masters A7.20-A7.21

Review the Skill

Ask students to write a paragraph about the characteristics of a good concluding sentence. Point out that the paragraph should have a concluding sentence of its own that ties together the information.

Administer the Writing, Revising, and Editing Test.

Day 1 Listen and Comprehend Realistic Fiction

OBJECTIVES

Thematic Connection: Exploring Space

Use Domain-Specific Words

Comprehend Plot

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Plot Diagram: Practice Master PM7.17

Family Newsletter 7

TECHNOLOGY ONLY

Sing with Me MP3

Digital Library: Key Word Images

My Vocabulary Notebook

Read Aloud: eVisual 7.21

MATERIALS

timer

Power Writing

Have students write as much as they can as well as they can in one minute about the word *moon*.

For **Writing Routine 1**, see page BP47.

COMMON CORE STANDARDS

Reading	
Determine the Meanings of	CC.4.Rlit.4
Words and Phrases	
Read and Comprehend Literature	CC.4.Rlit.10
Determine the Meanings of	CC.4.Rinf.4
Domain-Specific Words	
Read with Fluency to Support	CC.4.Rfou.4
Comprehension	
Writing	
Write Over Shorter Time	CC.4.W.10
for Specific Purposes	
Speaking and Listening	
Pose and Respond to Questions	CC.4.SL.1.c
Language and Vocabulary	
Acquire and Use Academic and	CC.4.L.6
Domain-Specific Words	



WARM-UP

Ask: What sorts of things might you see if you were standing on the moon? (Possible responses: rocks, craters, ridges, the sun, Earth) Have student pairs think about and discuss how Earth might look from the moon.

Academic Talk

1 Clarify Anthology page 454

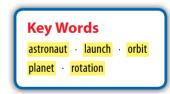
Read aloud the instructions and play the **Sing with Me Language Song**: "Let's Go to the Moon." Explain: When you clarify, you restate your sentence another way to make the meaning clearer. Model clarifying the third line of the song: Let's say someone does not know what creature means. I can clarify by defining the word and giving an example: A creature is an animal, such as a bear. I can also restate the text to show what I mean: There are not any animals living on the moon.

Have partners work together to clarify the line "If you want some more space" from the song. Have students brainstorm and discuss other situations in which they might need to clarify information by listening for details.

Science Vocabulary

2 Key Words ✓ **Anthology** page 455

Explain and model using **Vocabulary Routine 1** and the photos on **Student eEdition** page 455 to learn the Key Words.



- Pronounce the word and point to the image: launch.
- **Rate the word**. Hold up your fingers to show how well you know the word. (1 = very well; 2 = a little; 3 = not at all) Tell what you know about this word.
- **Define the word**: To **launch** means to send up into the air.
- **Elaborate**. Relate the word to your experience: When I was young, I saw NASA **launch** the first space shuttle.

For **Vocabulary Routine 1**, see page BP34. For more images of the Key Words, use the **Digital Library**.

Have partners take turns repeating the routine for each word from page 455. Have each student add the words to **My Vocabulary Notebook**.

See **Differentiate**





Anthology pages 454-455

3 Talk Together Anthology page 455

Have students recall what they know about space exploration as well as what they learned from "Building for Space Travel" (page 447). Then encourage partners to use Key Words as they discuss what it takes for astronauts to explore space. Provide an example: Astronauts must be launched into orbit.

Check & Reteach

OBJECTIVE: Use Domain-Specific Words

As students discuss what it takes for astronauts to explore space, listen for correct usage of the Key Words.

If students use words incorrectly, ask questions that use the words. For example:

- What is the name of the **planet** we live on?
- What things orbit the Sun?
- What are some things that astronauts do?

Encourage students to answer each question by repeating the Key Word. (Possible response: We live on the **planet** Earth.)

Weekly Writing

Gather students' writing throughout the week:

- √ Daily Writing Skills Practice (T453s–T453t)
- √ Power Writing (T454, T456a, T460, T470, T475b)
- √ Writing (T456, T458–T459, T468–T469, T475a, T476)
- √ Writing Project (T477a–T477d)

Differentiate

EL English Learners

ISSUE Students do not understand definitions.

STRATEGY Provide translations of the Key Words. Access Family Newsletter 7 for translations in seven languages. Use cognates for Spanish speakers:

astronaut/astronauta launch/lanzar orbit/orbitar planet/planeta rotation/rotación

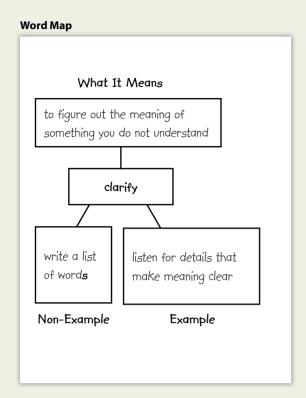
SN Special Needs

ISSUE Students have difficulty learning new vocabulary.

STRATEGY Have students focus on learning one Key Word at a time by adding that word, its definition, and an original sentence using that word to My Vocabulary Notebook. They can find definitions and examples in the Picture Dictionary on page 617.

Listen and Comprehend

Realistic Fiction



Fluency

Model Expression Explain the concept: *Fluent* readers put feeling into their voices to help make the meaning of the words clear and to add interest to whatever they are reading. Model expression with the first paragraph of the **Read Aloud**. Have students practice expression by reading aloud "Let's Go to the Moon" on **Anthology** page 454.

Comprehension

4 Plot ✓ Anthology page 456

Read aloud the first paragraph on page 456. Reinforce: The **plot** is the events, or actions, that make up a story. Usually, characters have a problem to solve as part of the plot. Use a Word Map to teach the term clarify. Then display eVisual 7.21 and read aloud "Francisco's Rocket."



Realistic Fiction

Francisco's Rocket

Francisco and his father spent weeks building a rocket for Francisco's school science project. Saturday morning, they drove to an open field outside town. Out there, no one would get hit by the rocket. Together, they set up the rocket and **launched** it. As the rocket sped higher and higher into the sky, Francisco dreamed of becoming an **astronaut** one day. Suddenly, the rocket **rotated** and turned down toward the ground. When it crashed at the other end of the field, Francisco and his father raced to check it out. "The nose is damaged," Francisco moaned.

But Francisco's dad already had a plan to help Francisco fix the nose and then build a parachute for his rocket. During the week, Francisco and his father found materials and designed a parachute that would open before the rocket fell to the ground.

The next Saturday, they **launched** the rocket a second time. Once again, the rocket soared and then turned toward the ground. This time, however, the parachute opened, and Francisco's rocket floated safely to the ground at his feet. Francisco's dreams were soaring high again.

NGReach.com Read Aloud: eVisual 7.21



5 Map and Talk Anthology page 456

After students read how to fill out a plot diagram, ask questions, such as: Why is making a parachute the turning point of the story? (Possible response: It is the part of the story where Francisco and his father figure out how to solve the problem.) Point out where the turning point would appear on the plot diagram.

6 Talk Together Anthology page 456

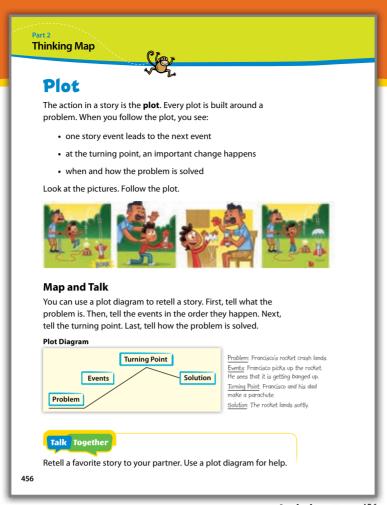
Have students use **Practice Master PM7.17** to fill out a plot diagram that they can use to retell a favorite story to a partner.

Check & Reteach

OBJECTIVE: Comprehend Plot

Ask students to identify the plot elements of their partner's story.

If students have difficulty, have them identify what happens in the beginning, middle, and the end of the story. Then have them identify the problem and locate where an important change occurs. Finally, have students explain how this change solves the problem.



Anthology page 456

Writing

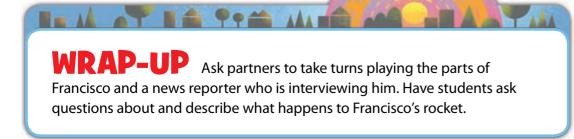
Write to Retell

Introduce: Now you will use your plot diagram to retell the plot of the story you discussed with your partner. Model the process with "Francisco's Rocket."

Think Aloud	Write	
First, I will write about the beginning of the story.	First, Francisco builds and launches a rocket with his father.	
I write about the problem next.	Then the rocket falls and is damaged.	
Then, I add the turning point.	Fortunately, Francisco's father has a plan to fix the rocket.	
Now, I write the solution.	They find materials and design a parachute.	

For **Writing Routine 2**, see page BP48.

Have students write their summaries and add to their Weekly Writing folders.





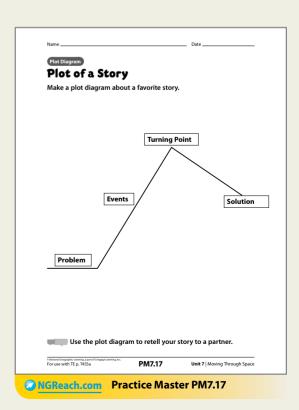
Daily Spelling and Word Work 🗹 Pretest page T453s

Daily Grammar **V**

Point to the relative adverb when in the **Read Aloud**. Then use page T453u to teach the relative adverb when.

Daily Writing Skills [7]

Read aloud the last sentence in the **Read Aloud,** pointing out that it is a concluding sentence. Then use page T453w to teach about concluding sentences.



Day 2 Read and Comprehend

OBJECTIVES

Thematic Connection: Exploring Space

Use Academic Words

Form Generalizations to Comprehend Literature

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Unit Concept Map: Practice Master PM7.1

Family Newsletter 7

TECHNOLOGY ONLY
Digital Library: Key Word Images

My Vocabulary Notebook

MATERIALS

timer

Power Writing

Have students write as much as they can as well as they can in one minute about being an astronaut.

For **Writing Routine 1**, see page BP47.

WARM-UP

Have partners use what they have learned from their readings about space travel to describe an imaginary trip to the moon.

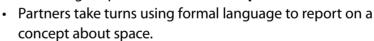
Academic Talk

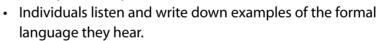
1 Report on a Concept

Explain: When you report on a concept, you present information about an idea. Before giving the information, think about the right type of language for your audience. Explain that when speaking to friends, you can use informal language. When speaking to an audience to give a presentation, however, you should use more formal language. Read aloud the following sentences and have students identify which kind of language is being used in these two sentences:

- It would be so cool to find little critters hanging out on the moon. (informal)
- It would be a great discovery to find creatures living on the moon. (formal)

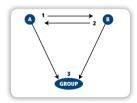
Have students use formal language to report on a concept about space, such as the dangers of space travel or living and working in space. Use a **Three-Step Interview**:





• Individuals share the examples they noted with the group.

For **Three-Step Interview**, see page BP46.



Three-Step Interview

Key Words

capacity constant

limit resistance

technology

Academic Vocabulary

2 More Key Words
✓ Anthology page 457

Explain: Let's learn some more words to help talk about space. Model using **Vocabulary Routine 1** and the images in the **Student eEdition** to learn the Key Words.

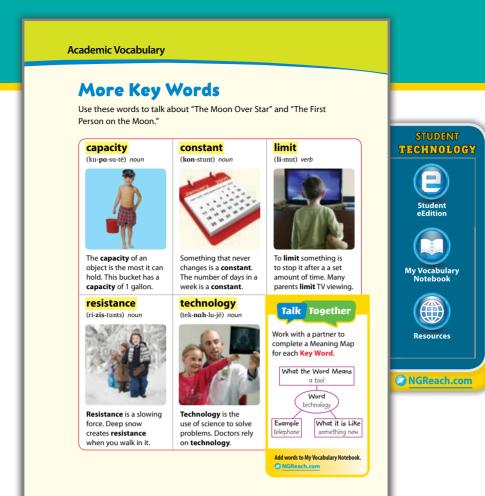
- Pronounce the word and point to the image: capacity.
- Rate the word. Hold up your fingers to show how well you know the word. (1 = very well; 2 = a little; 3 = not at all) Tell what you know.
- Define the word: The capacity of an object is how much it can hold. For example, the capacity of many water bottles is about 12 ounces of liquid.
- **Elaborate.** Relate the word to your experience: The **capacity** of this room is thirty students. We have enough desks for thirty people.

For **Vocabulary Routine 1**, see page BP34.

For more images of the Key Words, use the **Digital Library**.

COMMON CORE STANDARDS

Reading Determine the Meanings of Words CC.4.Rlit.4 and Phrases **Read and Comprehend Literature** CC.4.Rlit.10 Determine the Meanings of CC.4.Rinf.4 **Domain-Specific Words** CC.4.Rfou.4 Read with Fluency to Support Comprehension Writing Write Over Shorter Time for CC.4.W.10 Specific Tasks Speaking and Listening CC.4.SL.4 Report on a Topic Differentiate Contexts for Formal CC.4.SL.6 and Informal English and Use Formal English Language and Vocabulary Acquire and Use Academic Words CC.4.L.6

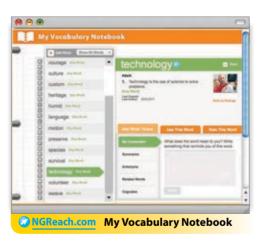


Anthology page 457

Have partners use **Anthology** page 457 to take turns repeating the routine for each word. Have students add the words to **My Vocabulary Notebook**.

See **Differentiate**

3 Talk Together Anthology page 457
Have partners work together to complete
a Meaning Map for each Key Word. Then
have partners share their examples and
definitions with another pair of students.



Check & Reteach

OBJECTIVE: Use Academic Words

As students discuss their Meaning Maps, listen for correct usage of the Key Words. If students use words incorrectly, ask questions about the words using the Key Word images, such as: Why is the number of days in a week a constant? Model an answer that includes the Key Word: The number of days in a week is a constant because this number never changes.

Best Practices

Group Strategically Assess students' strengths and needs periodically and rearrange relevant groupings so that students may grow at their own rates and find themselves continually challenged.

Differentiate

EL English Learners

ISSUE Students do not understand the Key Word definitions.

STRATEGY Provide translations of the Key Words. Access **Family Newsletter 7** for translations in seven languages. Use cognates for Spanish speakers:

capacity/capacidad constant/constante limit/limite resistance/resistencia technology/tecnologia

BL Below Level

ISSUE Students cannot relate the words to their own experience.

STRATEGY Prompt students with sentence frames that relate the Key Words to everyday situations, such as:

- When you see how much water a cup can hold, you find out its ______. (capacity)
- When you only let your dog play outside for five minutes, you _____ her playtime. (limit)

Read and Comprehend Story

Wordbench

generalization jen-ru-lu-**zā**-shun general generalize

genus=kind ize=to cause tion=makes a noun from an action

Meaning: a general idea that is true for many things

Comprehension

4 Learn to Synthesize ✓ Anthology pages 458–459

Use a Wordbench to teach the term **generalization**. Then project **Student eEdition** page 458 and chorally read the directions. Point to details in the images as you model making a generalization:

- I see that both astronauts are floating and working in space.
- I know that astronauts must deal with the loss of gravity.
- Most of the time, it is true that astronauts must be good at adjusting to new situations.

5 Talk Together Anthology page 459

Read aloud the instructions on page 459. Have partners read the first paragraph of the story and the sample generalization together. Then have students restate the generalization in their own words. Ask: *How does making a generalization help you understand Ramón's reaction?* (Possible response: It helps me know how he might feel about being interrupted.) Have partners continue the activity by reading the rest of the story and sharing their generalizations together.

Check & Reteach

OBJECTIVE: Form Generalizations to Comprehend Literature **[**

Ask: What is one **generalization** you formed while reading the story? (Possible response:

Most people like to concentrate when they play video games.)

If students have difficulty forming a generalization, encourage them to locate details in the text that describe Ramón's attitude towards the video game. Have them share something they know about the topic. Then have them complete this sentence frame: When they play video games, most people ______.

Writing

6 Write Generalizations

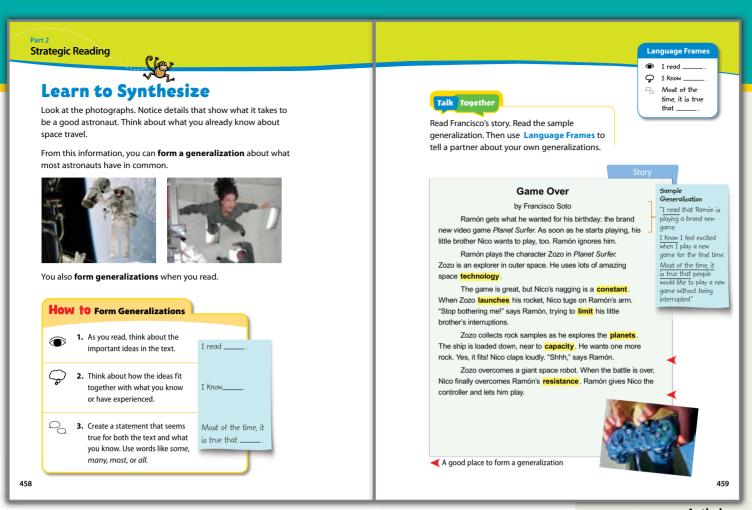
Introduce: *I will write a generalization about "Game Over."* Model the process. Encourage students to use the relative adverb *when*.

Think Aloud	Write	
First, I write about what I read.	I read that Nico really wants to play Ramón's new game.	
Then, I write about what I already know.	I know that when I see somebody playing a fun game, I want to try it, too.	
Finally, I write my generalization.	Most of the time it's true that people want to try a fun activity when they see someone else they know having fun.	

For **Writing Routine 2**, see page BP48

Fluency

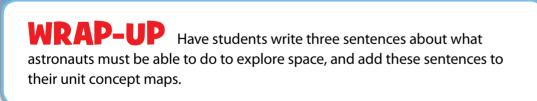
Practice Expression As partners read aloud Francisco's story, circulate and listen for expression.



Anthology pages 458–459

Have students reread "Game Over" and write about other generalizations they can make about Ramón, Nico, or video games. They can share and compare their generalizations with a partner's before adding their writing to their Weekly Writing folders.

See **Differentiate**





Differentiate

AL Above Level

ISSUE Students do not write generalizations that apply to many situations.

STRATEGY Provide a menu of sentence starters for students to choose, such as: Most of the time _____; Many people _____; It is usually true that _____.

Day 3 Read and Comprehend Realistic Fiction

OBJECTIVES

Thematic Connection: Exploring Space

Comprehend Plot

Form Generalizations to Comprehend Literature

PROGRAM RESOURCES

TECHNOLOGY ONLY

My Vocabulary Notebook

Read with Me: Selection Recordings:

MP3 or CD 3 Tracks 4-5

Comprehension Coach

MATERIALS

timer • self-stick notes

Power Writing

Have students write as much as they can as well as they can in one minute about planets.

For Writing Routine 1, see page BP47.

COMMON CORE STANDARDS

COMMON CORE STANDARDS	
Reading	
Read and Comprehend Literature	CC.4.Rlit.10
Refer to Details and Examples	CC.4.Rinf.1
When Explaining Text	
Read with Fluency to Support	CC.4.Rfou.4
Comprehension	
Read with Purpose and	CC.4.Rfou.4.a
Understanding	
Read Orally with Expression on	CC.4.Rfou.4.b
Successive Readings	
Writing	
Write Over Shorter Time for	CC.4.W.10
Specific Audiences	
Language and Vocabulary	
Demonstrate Command of	CC.4.L.2
Punctuation	
Use Knowledge of Conventions	CC.4.L.3
Acquire and Use Academic and	CC.4.L.6
Domain-Specific Words	



WARM-UP

Explain: Today, you will be reading a story that describes how characters react to viewing a real-life event on television—the first moon landing. Have students name examples of important historical events they have witnessed on television, read about, or learned about using a computer.

Vocabulary Practice

■ Expand Word Knowledge

Students will practice Key Words by creating Frayer Model Organizers. Use **Vocabulary Routine 2** to model how to make an organizer.

- Find the word in the **Picture Dictionary** and read the information about the word.
- Write the word in the center circle.
- · Add a definition.
- · Add characteristics.
- · Add examples.

For **Vocabulary Routine 2**, see page BP35.

Assign a Key Word to each set of partners. After they complete their organizers, have them add the definitions to **My Vocabulary Notebook**. Display the organizers in the classroom.

Academic Talk

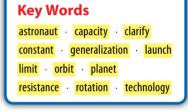
Preview and Predict

REVIEW Remind students: One way to preview a fictional story is to look at the illustrations and predict what the story will be about.

Write these Key Words: *astronaut, orbit, planet, technology*. Have students use a **Fishbowl** to share their predictions about "The Moon Over Star."

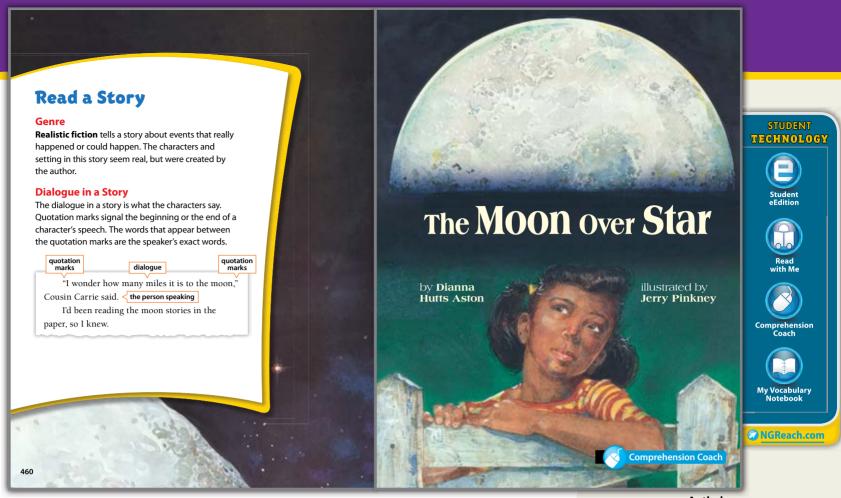
- Students preview the illustrations on **Anthology** pages 462–469 independently.
- Students on the inside share their predictions about pages 462–465, while those on the outside listen for Key Words and support from the text for each prediction.
- Groups change positions. The new inside group shares its predictions about pages 466–469.

For **Fishbowl**, see page BP45.



Fishbowl





Anthology pages 460-461

Reading

3 Read a Story Anthology pages 460–461

GENRE Have a volunteer read aloud the definition of realistic fiction. Elaborate: This selection includes elements of fiction and nonfiction. It is a story with characters, but it also includes facts and information about a real event.

DIALOGUE IN A STORY Ask a volunteer to read aloud the definition of dialogue. Reinforce the concept: Quotation marks show where each character's dialogue begins and ends. They show when a character is speaking.

SCIENCE BACKGROUND Share information to build background:

In 1969, the rocket ship Apollo 11 carried Neil Armstrong, Buzz Aldrin, and Michael Collins from Earth to the moon. A television camera on the Eagle broadcast Neil Armstrong's first steps on the moon. Many people around the world watched the historic moment.

Have students read pages 462–469. See Differentiate

Differentiate

BL Below Level

FRONTLOAD Display the Key Words. Read aloud the story, pausing to explain, discuss, and elaborate on the meaning of each Key Word.

OL On Level

READ TOGETHER Have students read the story with partners. Use the questions to build comprehension.

AL Above Level

READ INDEPENDENTLY As students read silently, have them take notes about the plot and use the questions to build comprehension.

Best Practices

Encourage Participation To involve shy or nonparticipatory students, provide time for them to develop and rehearse their predictions in pairs before sharing them with the larger Fishbowl groups.



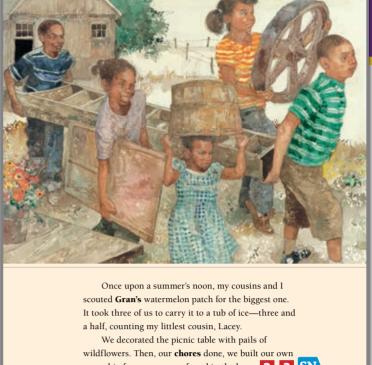
It was a summer's morning in 1969,

in the town of Star, where I lived. If all went well, a spaceship carrying astronauts Neil Armstrong, Edwin Aldrin, Jr., and Michael Collins would land on the moon today. I dreamed that maybe one day, I could go to the moon, too.

My gramps thought the space program was a waste of money, but I knew he still thought about the astronauts. I thought about the astronauts' kids and wondered if they were scared—scared but proud. I knew I'd be



gramps grandfathe



spaceship from **scraps** we found in the barn. 2 3 SN





463

Anthology pages 462-463

462

Fluency

Practice Expression, Accuracy, Rate As students read, monitor their expression, accuracy,

Read and Build Comprehension

Set a Purpose Have a student read aloud the purpose statement. Recall the title of the story to help students set a purpose for reading.

Gran's Grandmother's scraps pieces or parts of things

- **2 Compare and Contrast** *How are the main character's feelings about the* space program the same as her grandfather's? (Both think about the astronauts.) How are they different? (Possible response: Her grandfather thinks the space program is a waste of money, but she is very excited about it and dreams of being an astronaut someday.)
- **Analyze Genre** What is an example from this realistic fiction story of something that really happened? (Possible response: In 1969, three astronauts went to the moon.) What is an example of something that could happen in real life? (Possible response: The children use scraps to build a make-believe rocket ship.)

Differentiate

EL English Learners

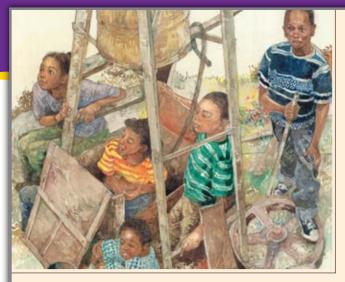
ISSUE To set a purpose for reading, students need more preparation than they can get from the preview alone.

STRATEGY Conduct a picture walk of the selection, pointing to each illustration, and asking students to predict what the characters will do and feel.

SN Special Needs

ISSUE Students can identify similarities but have difficulties seeing differences.

STRATEGY Help students list details about each character and then compare the list to see how the characters are different.



As the oldest grandchild, I got to be launch controller and Commander Armstrong

"Ignition sequence start . . . 6, 5, 4, 3, 2, 1, 0. Liftoff, we have liftoff!'

We closed our eyes, imagining with all our might the rumble, the roar, and the force of the Saturn rocket. blasting the spaceship into the stars. Then we were rushing through space at 25,000 miles per hour.

> launch controller the person in charge of the launch Ignition sequence start Start counting with all our might as hard as we could

"I wonder how many miles it is to the moon," Cousin Carrie said.

I'd been reading the moon stories in the paper, so I knew. "About 240.000 miles." I said. "And some scientists say it's moving away from us-an inch or so farther

I also knew that in May 1961, a month before I was born, President John F Kennedy had said America would send men to the moon before the decade was out

the decade was out the year 1970



Before You Move On

- Generalize What is one thing the narrator thinks about space travel?
- 2. Make Comparisons How is the children's game like a real liftoff?

Anthology pages 464-465

Mini Lesson

464

Identify Dialogue

Review: Lines of dialogue record the exact words that characters say. Quotation marks around dialogue tell where the exact words of a character begin and end. What a character says provides clues about the character's personality and feelings.

Project **Student eEdition** page 465 and discuss how to identify characters and their dialogue:

- The first line of dialogue begins with quotation marks and ends with a comma and closing quotation marks. Who says these lines? (Cousin Carrie) How do you know? (The text says, "Cousin Carrie said.")
- Point to the dialogue in paragraph 2. Who says these lines? (the narrator who is telling the story) How do you know? (The text says, "I said.")

Explain that sometimes an author records the inner thoughts of a character. Point out on page 465 where the narrator talks about what John F. Kennedy said. Ask: How can you tell the difference between the dialogue this character speaks and her inner thoughts? (The dialogue has quotation marks around it.)

To check understanding, have pairs locate examples of dialogue on pages 466–467 and point out what punctuation is used.

Answers Before You Move On

- **1. Generalize Y** Possible response: The narrator thinks that it would be exciting to travel into
- 2. Make Comparisons The narrator pretends to be the launch controller. The children use the same words and count down the seconds just like a real launch.

How will Gramps respond when the first spacecraft lands on the moon?

That afternoon, we were helping

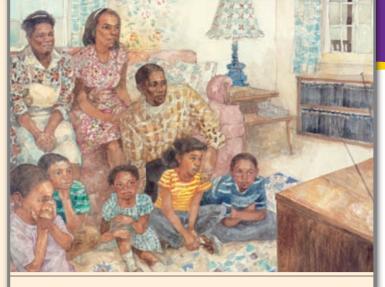
Gramps with the tractor when Gran hollered, "Come quick! They're landing!"

Gramps kept right on tinkering with the engine. The rest of us ran pell-mell for the house and squirmed around the television screen as it glowed with equal parts of moon and the spaceship called Eagle.

We heard the voice of Commander Armstrong directing the landing. "Forward . . . forward," he said.



hollered velled tinkering with w pell-mell in a wild rush



Then the newsman we all knew, Walter Cronkite, exclaimed "Man on the moon!"

For a **split second** we were silent. The whole universe must have been, as we waited to hear the voice of an astronaut 240,000 miles away

And then: "Houston, Tranquility Base here." Commander Armstrong said. "The Eagle has landed." 2

split second short mo Tranquility Base here I'n The Eagle has landed.



467

466

Anthology pages 466-467



Daily Language Arts

Daily Spelling and Word Work Practice page T453t

Daily Grammar 🌠

Point out the relative adverb when on page 469. Then use page T453v to review relative adverbs.

Daily Writing Skills 🗹

Point out the concluding sentence on page 469. Then use page T453x to practice using concluding sentences.

Read and Build Comprehension

- **Predict** Read aloud the predict question. Then ask: What do you know about Gramps so far? (Possible response: He thinks the space program is a waste of money.) Have students use what they know to predict how he will act.
- **Comprehend Plot What is the problem in the story?** (Possible response: Gramps is the only one who is not excited about the moon landing.)
- **If the second serious is a second se** moon landing compares with that of other people? (Possible response: I read that the children react by cheering. Most of the time, it is true that people are excited to watch important events happening.)

Check & Reteach

OBJECTIVE: Comprehend Plot

Check for accurate responses to all of the comprehension questions about plot. If students have difficulty identifying the problem and solution, have them write the plot events on self-stick notes and ask themselves: "Is this something that must be fixed or solved?" They can repeat the process by asking, "Does this solve the problem?"

OBJECTIVE: Form Generalizations to Comprehend Literature

Check students' responses to comprehension questions about forming generalizations. If students are unable to form generalizations, help them break the process down into steps by asking: What does the story say? What do you know about other people in this situation? How do these ideas fit together?

Answers Before You Move On

- 1. Explain Gramps is not as excited about the moon landing because he thinks the space program is a waste of money.
- **2. Plot 1** The family is watching the moon landing while Gramps is working outside.



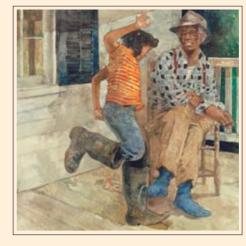
Boy, did we cheer, all of the cousins and even the grown-ups—all except Gramps. I remembered something he'd once said:

> "Why spend all that money to go to the moon when there are so many folks **in need** right here on Earth?"

"Because we can!" I'd almost shouted, but **caught** myself.

I began to wonder then what Gramps's dreams had been. From the time he was little, he had worked the farm, doing the same jobs, **day to day**, season to season.

In Other Words
in need who need money
caught stopped
day to day one day after another



When the **crickets began to sing**, Gramps sat down to rest. I pulled off his **dirt-caked** boots for him and stomped around the porch.

"Gramps, will you watch the moon walk with me

"I'm mighty **worn out** today," he said, "but maybe."
Suddenly, I could see how tired he was. Lifetimetired. There were deep lines in his face—a farmer's face, an old farmer's face.

"All right, Gramps," I said. "It's okay."

In Other Words
crickets began to sing evening came
dirt-caked dirt-covered
worn out tired

- ▶ Before You Move On
- Explain Why isn't Gramps as excited as everyone else about the moon landing?
- 2. Plot What two events are happening in

469

Anthology pages 468-469

Writing

468

4 Write Dialogue

REVIEW Dialogue tells exactly what a character says. The character's words are enclosed within quotation marks and begin with a capital letter. Review the rules for punctuating dialogue and have students identify examples of each rule from **Anthology** pages 466–467.

Have students reread pages 463–464 of the story. Then have students work independently to make up dialogue for the characters who are building the spaceship. Remind students to punctuate the dialogue correctly. Have students add their dialogues to their Weekly Writing folders.

See Differentiate



Have the class form two groups. Have one group explain how the main character from "The Moon Over Star" feels about the space program, and have the other group explain how Gramps feels about it. Remind groups to base their ideas on evidence from the text. Invite pairs of students, one from each group, to share their explanations with the class.

Differentiate

SN Special Needs

ISSUE Students cannot translate made-up dialogue into written form.

STRATEGY Have students make audio recordings of their dialogue. As they listen to their recordings, have them write the dialogue in speech balloons for the characters. Work with students to convert the speech balloons into dialogue form.

AL Above Level

ISSUE Students write flat dialogue.

STRATEGY Encourage students to use at least one statement, exclamation, question, and command in their dialogue.

Day 4 Read and Comprehend Realistic Fiction

OBJECTIVES

Thematic Connection: Exploring Space

Comprehend Plot

Form Generalizations to Comprehend Literature

PROGRAM RESOURCES

TECHNOLOGY ONLY

Read with Me: Selection Recordings: MP3 or CD 3
Track 6

My Vocabulary Notebook Comprehension Coach

MATERIALS

timer

Power Writing

Have students write as much as they can as well as they can in one minute about something they dream of doing when they are grown up.

For **Writing Routine 1**, see page BP47.

WARM-UP

Remind students of the pictures of the night sky that they drew on **Family Newsletter 7.** Have students take turns quickly responding to the following prompt: *What do you think of when I say* **planets**? **orbit**? **astronaut**? stars? moon?

Vocabulary Practice

1 Share Word Knowledge **☑**

REVIEW Have students use the Frayer Model Organizers they made on Day 3.

Group each student with a partner who studied a different Key Word. Have partners follow

Vocabulary Routine 3.

- Have students take turns reading their organizers.
- Encourage partners to talk about how the examples help them understand the Key Words.

Key Words

rotation technology

astronaut capacity clarify

constant generalization launch

limit orbit planet resistance

- Have partners create sentences using both Key Words.
- Have each student add the sentences to My Vocabulary Notebook.
- Repeat these steps until students have an entry for each Key Word.

For **Vocabulary Routine 3**, see page BP36.

Academic Talk

2 Summarize Reading

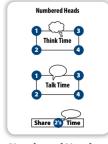
REVIEW Remind students: When you summarize a story, you briefly tell the most important parts. Explain that students will use Key Words to summarize what they have read of "The Moon Over Star."

Write these Key Words: **astronaut**, **orbit**, **planet**.

Use **Numbered Heads Together** to summarize pages 462–469.

- Arrange students in groups of four, and have them number off within each group.
- Have students think individually about how they would summarize the selection so far.
- Have groups discuss and share their ideas about what belongs in a short summary of "The Moon Over Star."
- Call a number and have the student from each group with that number report for the group.

For **Numbered Heads Together**, see page BP46.



Numbered Heads Together

COMMON CORE STANDARDS

Reading

Summarize CC.4.Rlit.2
Read and Comprehend Literature CC.4.Rlit.10
Read with Fluency to CC.4.Rfou.4

Support Comprehension
Read with Purpose and CC.4.Rfou.4.a
Understanding

Read Orally with Expression CC.4.Rfou.4.b on Successive Readings

on Succ

Write Over Shorter Time CC.4.W.10 for Specific Purposes

Language and Vocabulary

Acquire and Use Academic and CC.4.L.6

Domain-Specific Words

T470 Unit 7



Anthology pages 470–471

Reading

3 Read and Build Comprehension

- Predict Read aloud the predict question. Ask students to use what they know about the narrator to make their predictions. (Possible response: The moon walk means that the main character's dream of becoming an astronaut may one day come true.)
- Make Inferences Why does the narrator say that what she imagines is better than what she sees on television? (Possible response: I know that a television can show only a bit of what the astronauts can see. So I think her imagination can take her to many more places in space.)
- Analyze Setting Why does the narrator state the date several times in the story? (Possible response: to tell when the story takes place)

Differentiate

SN Special Needs

ISSUE Students lack conceptual structure to make predictions.

STRATEGY Have students review what they already know from the story. Provide the following sentence frames: I read that _____. I predict that next, _____.

AL Above Level

ISSUE Students make many inferences, but not all of them are supported by the text.

STRATEGY Have students identify the specific evidence in the text on which they base each of their inferences. They may also refer to prior knowledge for support.

Fluency

Practice Expression, Accuracy, Rate Use page 471 to build fluency. Model reading with feeling to accurately express the meaning of the text. Then have students reread the page to a partner. Circulate and monitor fluency.

Day 4



I didn't know it then, but there were 600 million people **the world over** watching with me and listening, when Commander Armstrong said, "That's one small step for man, one giant leap for mankind."

All of us—from New York to Tokyo to Paris to Cairo . . . to Star—watched it together, the astronauts bounding across the moon like ghosts on a **trampoline** I felt a hand on my shoulder.

"I **reckon** that's something to remember," Gramps said quietly.



In Other Words
the world over all over the world
trampoline springy surface
reckon guess

Later, when it was as quiet as the world ever gets,
Gramps and I stood together under the moon.

"What's mankind?" I asked him.

"It's all of us," he finally said. "It's all of us who've ever lived, all of us still to come."

I put my hand in his. "Just think, Gramps, if they could go to the moon, maybe one day I could too!"

"Great days," he said, "an astronaut in the family.

Who'd a though?"

I smiled in the dark. My gramps was proud of me.

In Other Words
Who'd a Who would have

473

Anthology pages 472–473

472

Read and Build Comprehension

- **2 Comprehend Plot**
 ✓ Which event do you think is the turning point in the story? (Possible response: Gramps joins the family to watch the moon walk.) How does this event show a change? (Possible response: After this, Gramps tells the main character that it is an event to remember.)
- Confirm Predictions Think about the predictions you made about the importance of the moon walk. Were your predictions correct? Why or why not? (Possible response: Yes, it is important to the narrator because she dreams of going to the moon one day.)

Differentiate

BL Below Level

ISSUE Students have trouble identifying the turning point in the story.

STRATEGY Have each student list key story events. Then have students examine the list to identify where a character changed his or her mind or did something new that helped to solve the problem.

AL Above Level

ISSUE Students over-generalize, going far beyond what the text implies.

STRATEGY Have students critique their generalizations by identifying details linked to the text and eliminating those not supported by the text.



Anthology page 474

- 4 Analyze Cause and Effect Why does seeing the moon walk make Gramps think about the first time he saw an airplane? (Possible response: Both are remarkable events that were "something to see.")
- Analyze Figurative Language What does Gramps mean when he says he and Mae are "together on the prettiest star in the heavens"? (Possible response: Gramps values Earth and the time he spends with his granddaughter.)
- **Compare and Contrast** How is what Mae sees in the moon similar to and different from what Gramps sees? (Possible response: Both Mae and Gramps think that the moon is important. However, Mae sees a dream of adventure and travel, while Gramps sees when to plant and when to harvest.)

Check & Reteach

OBJECTIVE: Comprehend Plot

Check for accurate responses to all the comprehension questions about plot. If students have difficulty identifying the important parts of a plot, provide the following frames: In the beginning, ______. In the middle, _____. In the end, _____.

OBJECTIVE: Form Generalizations to Comprehend Literature **Y**

Check for accurate responses to all of the generalization comprehension questions. If students are unable to form generalizations, remind them that they should make a statement that is true in general. Ask them to think about the situation in the text and picture how people they know in the real world would behave in this situation.

Best Practices

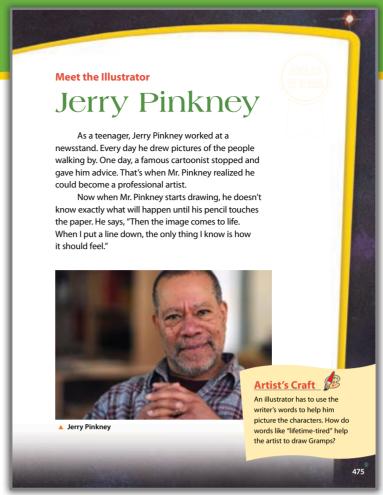
Encourage Debate During discussions, encourage students to ask each other for justification of ideas. Provide examples:

- You say that Gramps sees the moon only as something that helps him know when to plant crops. What makes you think that?
- So are you saying that Mae sees a dream in the moon? Which part of "The Moon Over Star" helps you clarify what this dream is?

Answers Before You Move On

- **1. Visualize** Mae sees the moon and stars from **planet** Earth. She imagines the **astronauts** can see things that are even farther away.
- **2. Character** At first, Gramps is not interested in the **astronauts**. Later, he realizes that they accomplished something truly amazing.

Day 4



Anthology page 475

4 Meet the Illustrator Anthology page 475

Have students silently read the biography. Explain that a newsstand is a stall on the sidewalk where people can stop to buy newspapers and magazines. Help students conclude that Pinkney most likely saw many people he could practice drawing while working at this newsstand.

After students read the biography, build comprehension:

- Analyze Cause and Effect Why was meeting the famous cartoonist an important event in Pinkney's life? (Possible response: The cartoonist encouraged Pinkney's art.)
- Make Inferences How did drawing every day most likely help Pinkney's art?
 (Possible response: I know that if you want to get very good at something, you have to practice a lot. Pinkney probably improved his drawing skills by practicing how to draw pictures of people every day.)
- Paraphrase In your own words, describe the process Pinkney follows when he draws. (Possible response: He does not plan what he will draw ahead of time. He starts drawing with his pencil and decides what to draw next based on how he feels about the marks he makes.)
- Make Connections Pinkney says that he draws based on how he feels. What does this make you think of? (Possible response: The way he draws reminds me of when I am writing a story. Sometimes I do not plan it ahead of time. I just write what I feel. Now I understand more about how Pinkney works as an artist.)

Writing

5 Artist's Craft Anthology page 475

Read aloud the instructions in the Artist's Craft feature on page 475. Discuss how an illustrator might use a writer's descriptions to draw characters.

Have students look at the illustrations of Gramps on pages 468–469. Ask: *How do these illustrations support the text descriptions?* (Possible response: The text mentions Gramps's "dirt-caked boots" and how he is "lifetime-tired." In the pictures, I can see his dusty boots and his lined face, which show how tired he is from working hard for so long.)

Explain: I will take the role of a writer who is writing descriptions of a character for an illustrator to draw. Model writing descriptive sentences that contain figurative language and precise words.

Think Aloud	Write
I will use figurative language to describe how my main character looks.	Marina's brown eyes sparkled like stars. Her cheeks were two rosy apples set on either side of her wide, smiling mouth.
I will use precise words to tell what my setting looks like.	A dusty road wound through the tall grass toward the small cottage. Three stone steps led up to a wooden door covered with peeling, green paint.

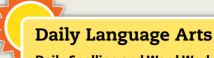
For **Writing Routine 2**, see page BP48.

Have students use figurative language and precise words to write their own descriptive sentences for an illustrator. Have students add their sentences to their Weekly Writing folders.

See **Differentiate**



WRAP-UP Have groups discuss and make lists of figurative language students could use to describe the stars in the night sky. Then have groups exchange and compare their lists.



Daily Spelling and Word Work

✓
Practice page T453t

Daily Grammar

Point out the relative adverb *where* in the first sentence on page 470. Then use page T453v to practice relative adverbs.

Daily Writing Skills 🌠

Point out how the last two sentences on page 474 build a conclusion that resolves the main problem of the plot. Then use page T453x to practice using concluding sentences.

Differentiate

BL Below Level

ISSUE Students have difficulty writing descriptions.

STRATEGY Have students picture their subject and pick two or three details they think they should tell the illustrator about. Provide sentence frames, such as: His face is like _____. Her hair is like _____.

AL Above Level

ISSUE Students try to include too many details in their descriptions.

STRATEGY Have students think about their subject and make a list of details they think they should include. Then have students identify the details that are most important to know to understand the subject. Tell them to use only these details to write descriptive sentences.

√ 5 Review and Apply

OBJECTIVES

Thematic Connection: Exploring Space

Comprehend Plot

Read with Fluency

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Test-Taking Strategy Practice: Practice Master PM7.20

Plot Diagram: Practice Master PM7.21 Fluency Practice: Practice Master PM7.22

TECHNOLOGY ONLY

Online Vocabulary Games

Read with Me: Fluency Models: MP3 or CD 1 Track 14

MATERIALS

timer • index cards • yellow marker

Power Writing

Have students write as much as they can as well as they can in one minute about the word technology.

For Writing Routine 1, see page BP47.

COMMON CORE STANDARDS

Reading

Refer to Details and Examples When CC.4.Rlit.1 **Explaining Text**

Summarize Read Orally with Expression on

CC.4.Rlit.2 CC.4.Rfou.4.b

Successive Readings Write Over Shorter Time for

Writing

CC.4.W.10

Specific Purposes Language and Vocabulary

Acquire and Use Academic and CC.4.L.6 **Domain-Specific Words**

WARM-UP

Tell students they will be playing a Key Word game about space today. Have partners recall information from the texts they have read about space travel. One partner names a Key Word, and the other partner explains briefly how this word relates to the Big Question: What does it take to explore space?

Vocabulary Review

■ Apply Word Knowledge

Write: **astronaut** and **orbit**. Display **Student eEdition** page 476 and call students' attention to the other Key Words listed there. Then have students apply their knowledge of the Key Words to create Multiple Key Word skits. Explain the instructions:

Key Words astronaut capacity clarify constant generalization launch limit orbit planet resistance rotation technology

Ever since I became an astronaut,

I have been dreaming about when

my first rocket will launch!

- I will give each small group a list of five Key Words.
- Brainstorm how the words relate to each other and turn those ideas into a skit with dialogue that includes all of the Key Words.

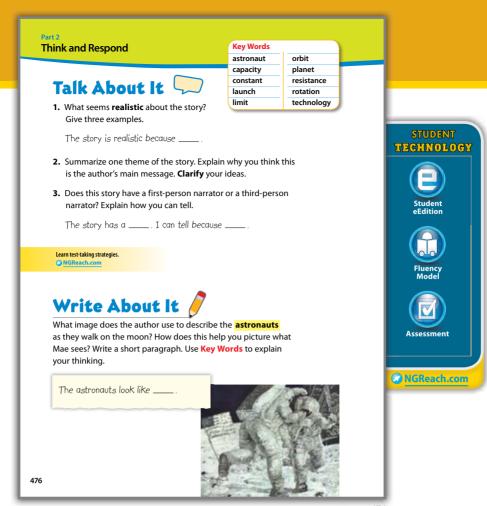
Have students create and perform their skits.

- Assign lists of five or more Key Words to each small group.
- Each group brainstorms ways that the Key Words relate to one another and creates a skit that includes all the Key Words.
- · After groups present their skits, the class votes on which skit used the Key Words most accurately.

For **More Vocabulary Routines**, see pages BP41–BP43.

For additional practice, have students play the **Online Vocabulary Games** in pairs or individually.





Anthology page 476

Academic Talk

2 Talk About It Anthology page 476

Have small groups use Key Words as they discuss the **Talk About It** questions. Remind them to use formal language when reporting their ideas.

Then use the test-taking strategy lesson from **NGReach.com** and **Practice Master PM7.20** to ask more questions about the selection.

Writing

3 Write About It Anthology page 476

Call students' attention to the illustration on **Anthology** page 476. Have students summarize the details they see in this image. Then read aloud the directions on **Anthology** page 476.

Prompt students to remember the words Mae uses on **Anthology** page 472 to describe how the astronauts look as they walk on the moon. ("the astronauts bounding across the moon like ghosts on a trampoline") Have students consider how this text description relates to the illustration.

Encourage students to include Key Words in their writing. For example: Mae says that the **astronauts** look like ghosts on trampolines in their space suits.

Have students add their paragraphs to their Weekly Writing folders.

Daily Language Arts Daily Spelling and Word Work Test page T453s

Daily Grammar 🌠

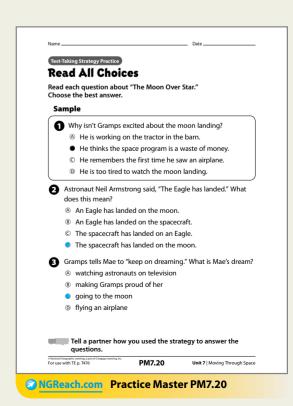
Write this sentence: A writer's use of descriptive words determines why an illustrator draws a character in a particular way. Explain that *why* is a relative adverb in this sentence. Then use page T453v to review and assess relative adverbs.

Daily Writing Skills 🗹

Read aloud the concluding sentence of "Meet the Illustrator" on **Anthology** page 475. Then use page T453x to assess students' understanding of using concluding sentences.

Answers Talk About It

- 1. Realistic Fiction Possible response: The story is realistic because what the characters say and do seem real. Also some of the events actually occurred
- **2. Clarify** Possible response: One theme is that dreams are important.
- **3. Point of View** This story has a first-person narrator. I can tell because Mae uses the words *I*, *me*, and *my*.



Differentiate

EL English Learners

ISSUE Students have difficulty identifying the turning point of the story.

STRATEGY Remind students that a turning point is the part of a story at which an important change happens. Have them list several important plot events and identify the turning point at which a character changes his or her mind or does something new.

SN Special Needs

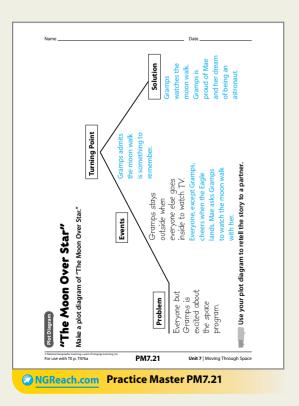
ISSUE Students have trouble keeping track of the order of events.

STRATEGY Write each of the main events on an index card. Have students put the cards in order. Then help them to identify the turning-point event and color it with a yellow marker.

AL Above Level

ISSUE Students do not use newly acquired vocabulary when discussing the parts of a story.

STRATEGY Have students make a list of the content, academic, and/or classroom vocabulary words. Challenge students to use these words in discussing problems, events, turning points, and solutions they have identified.



Comprehension



4 Plot Manthology page 477

REVIEW Display **Student eEdition** page 477, and read aloud the instructions. Review the important parts of a story: problem, events, turning point, and solution. Have volunteers identify story parts on the plot diagram and read aloud the callouts. Remind students that events must be listed in sequence, or time order.

Review **Anthology** page 469 and model how to identify important information to include in a plot diagram: The crickets are singing, but that is not an important event to include. Mae asks Gramps to watch the moon landing with her. That is an important event to include because it provides information about how the characters feel about the moon landing.

Have partners work together to complete **Practice Master PM7.21**. As you circulate, remind students to include only the most important plot events on their diagrams.

Have students use their completed plot diagrams and the sentence frames provided to retell the story of "The Moon Over Star" to a partner. Remind students to use dates, times, and sequence words such as first, then, and finally in their retellings.

Ask: How did the plot diagram help you to retell the story's events in the correct sequence? (Possible response: It helped me remember the order in which important events happened and how each event related to the other events.)

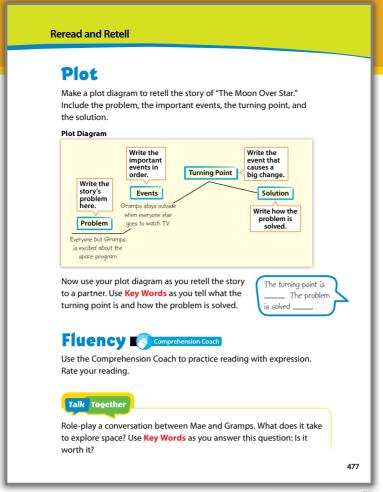
See **Differentiate**

Check & Reteach

OBJECTIVE: Comprehend Plot

As partners retell the story to each other, circulate and monitor how well students can identify the problem, events, turning point, and solution of a story. If students have difficulty identifying plot elements, have them review the most important events of the story. Ask them to identify the problem. Then have them ask themselves whether or not each event shows a big change in a character or situation. Once students

have identified the event that causes a big change, have them describe what the change is and what effect it has on the rest of the story's events.



Anthology page 477

5 Fluency ✓ **Anthology** page 477

Have students read aloud the passage on **Practice Master PM7.22** or use **Comprehension Coach** to practice fluency.

Check & Reteach

OBJECTIVE: Read with Fluency

Monitor students' oral reading.

If students need additional fluency practice, have them read along with the **Fluency Models**.

6 Talk Together Anthology page 477

Have students compare Gramps's feelings about the moon landing with Mae's. Then read aloud the directions and have partners role-play a conversation between Mae and Gramps.







Week 3 Writing Project

OBJECTIVE

Thematic Connection: Exploring Space Write an Original Story: Organization

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Writing Rubric: Assessment Master A7.41

TECHNOLOGY ONLY

Sample Original Story: eVisual 7.27

Organization: eVisual 7.28

Magazine Maker

SUGGESTED PACING

DAY 1 Study a Model

DAY 2 Prewrite

DAY 3 Draft

DAY 4 Revise/Edit and Proofread

DAY 5 **Publish and Present**

Write an Original Story

Display and read aloud the prompt.

You are writing a short story about space travel. You plan to submit your story to a movie producer in hopes of having your idea turned into a science fiction movie!

Study a Model

Read an Original Story

Explain: Let's read one student's original story. Display and read aloud eVisual 7.27.



Sample Original Story

Ten Million Miles from the Sun

I live in a research lab, where my parents work. For us, the material called Sunpel is a life-saver. Without Sunpel, we would all be cooked. That almost happened last month when the lab got hit by an asteroid. That hit made a tiny chink in the Sunpel skin of the lab, and the heat started trickling in. Within an hour, the lab felt like a sauna. If it continued to heat up, we would be broiled alive within two hours. As the alarms blared and the temperature kept climbing, we all started to panic.

Then I remembered my newest science kit. It had a small spray bottle of Sunpel in it. Quickly, I ran to get the bottle and began spraying Sunpel directly on the spot. Gradually, the blasting heat stopped. We were saved!

In the next interplanetary mail pickup, my family placed a thank-you gift to the space kit company. We sent a piece of the asteroid that had damaged our lab. It turns out there was gold in it. What a well-deserved reward!

Sample Original Story: eVisual 7.27



INTERACTIVE WHITEBOARD TIP: Underline the sentences that describe the story problem.

Review the Trait: Organization

Review: The events of a story should be presented in order. Readers should understand how one event leads to the next. Display and read aloud eVisual 7.28.



Writing Trait: Organization

A well-organized story:

- is based around a problem
- shows how one event leads to the next until the problem is solved.

NGReach.com Organization: eVisual 7.28



Display eVisual 7.27 again. Discuss how the author makes the events easy to follow. Also discuss the final paragraph and why it is such a satisfying conclusion to the story.

COMMON CORE STANDARDS

Writing

Write Narratives CC 4 W 3 Establish a Situation and Organize CC.4.W.3.a Events in a Sequence Provide a Conclusion CC.4.W.3.e Plan, Revise, and Edit Writing CC.4.W.5 Write Over Extended Time Frames CC.4.W.10 for Specific Tasks, Purposes,

and Audiences

Language and Vocabulary

Demonstrate Command of Grammar CC.4.L.1 Use Relative Adverbs CC.4.L.1.a Use Knowledge of Conventions CC.4.1.3



Prewrite

Choose a Topic

Reread the first sentence of the prompt. Ask: What is your role? (story writer) Continue with the prompt in order to determine the Role, Audience, and Form for the RAFT.

Role: Story writer

Audience: Movie producer Form: Original short story

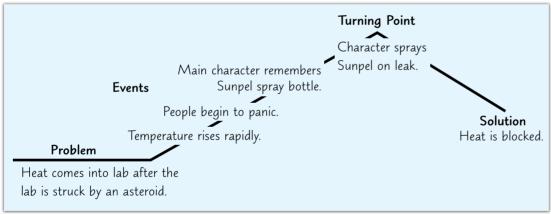
Have students look at Magazine Maker photos of people, space, and technology. Encourage them to choose several photos that inspire ideas for their stories. Have students work independently to view images and complete the RAFT.



Get Organized

Review the sample: "Ten Million Miles from

the Sun" has a plot that is easy to follow. Display a plot diagram and review: Using a plot diagram can help you plan your story. Model using the information from the sample to complete the plot diagram.



Plot Diagram

Have students create and use their own plot diagrams to help them plan their stories.

Draft

Write Ideas

Have students begin their drafts by inserting the photographs they chose using Magazine Maker. Then have students draft their original stories. Explain that they can be as creative as they like with their page layout by wrapping text around the photograph and using different fonts and colors for their writing. Remind students to focus on organization as they draft their stories.

See Differentiate

Differentiate

SN Special Needs

ISSUE Students have difficulty organizing thoughts in writing.

STRATEGY Have students tell you their ideas for a story, then work with them to complete a plot diagram. Remind students that their stories can be very short, just three paragraphs (problem, events leading to turning point, and solution), with two or three sentences in each paragraph. When students have written their drafts, assist them in writing a concluding sentence.

Week 3 Writing Project



Daily Language Arts

Daily Spelling and Word Work ✓ Practice pages T453s–T453t.

Daily Grammar

Have students find examples of the relative adverbs (*where* and *when*) in the sample story "Ten Million Miles from the Sun" and in the **Anthology**. Use pages T453u–T453v to practice using relative adverbs that introduce dependent clauses.

Daily Writing Skills 🌠

Point out the concluding sentence in the sample story "Ten Million Miles from the Sun" and remind students that the purpose of a concluding sentence is to bring a sense of completion to the whole story. Then use pages T453w–T453x to practice writing concluding sentences.

Differentiate

BL Below Level

ISSUE Students have difficulty crafting concluding sentences.

STRATEGY Explain that a concluding sentence wraps up the plot, action, and events in the story. Often, it shows how the characters feel happy because the problem has ended. Have students compare the endings of the revision model and the final model. Discuss how the last sentence of the final model includes emotion, which makes the reader feel the satisfaction of the main character.

Revise

Read, Retell, Respond

Have students read aloud their drafts to partners. Have listeners retell the story in their own words and offer ideas to improve organization. Display language frames to guide the discussion.

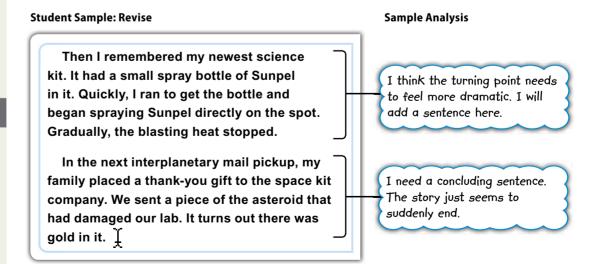
Retell Make Suggestions		
The story problem is	I'm not sure why happens	
Important events are	after Could you tie it together better?	
The turning point is The problem is solved when	The ending might be stronger if you	

Make Changes

Have students revise their writing. Remind students to make sure their stories are well-organized. Ask students to concentrate on their story endings. Does the concluding sentence wrap up the action and let readers know that the story has come to an end?

Demonstrate how to crop, move, and resize images in **Magazine Maker**: Select the image you want from the library and drag it into position. Move the image around on the page by clicking and dragging on the upper left corner of the image. Resize the image by clicking and dragging on the lower right corner of the image.

See **Differentiate**



Edit and Proofread

Check the Story

Have students check their grammar and spelling, focusing on the Week 3 spelling words and on the proper use of relative adverbs that introduce dependent clauses.

Student Sample: Revise

I live in a research lab. My parents work here. For us, the material called Sunpel is a life-saver. Without Sunpel, we would all be cooked. That almost happened last month when the lab got hit by an asteroid. That hit made a tiny chink in the Sunpel skin of the lab, and the heat started trickling in. Within an hour, the lab felt like a sauna. If it continued to heat up, we would be broiled alive within two hours. As the alarms blared and the tempperature kept climbing, we all started to panic. I

Sample Analysis

I can use the relative adverb where to combine the first two sentences. I think it will read better that way.

I misspelled temperature. I need to correct that.

Publish and Present

Make a Final Copy

Remind students that Magazine Maker allows them to upload and use images from their own computers. Encourage students to try different layouts or add pictures to personalize the look of their stories.

Share with Others

Review: When you read your story aloud, you can change your voice to better express your characters' feelings and emotions. Form small groups and ask volunteers to read their stories aloud to their group. Have students make additional copies of their writings and add them to their Weekly Writing folders. Use the Writing Rubric to assess each student's original story.

Student Sample: Publish

Ten Million Miles from the Sun

I live in a research lab, where my parents work. For us, the material called Sunpel is a lifesaver. Without Sunpel, we would all be cooked. That almost happened last month when the lab got hit by an asteroid. That hit made a tiny chink in the Sunpel skin of the lab, and the heat started trickling in. Within an hour, the lab felt like a sauna. If it continued to heat up, we would be broiled alive within two hours. As the alarms blared and the temperature kept climbing, we all started to panic.

Then I remembered my newest science kit. It had a small spray bottle of Sunpel in it. Quickly, I ran to get the bottle and began spraying Sunpel directly on the spot. Gradually, the blasting heat stopped. We were saved!

In the next interplanetary mail pickup, my family placed a thank-you gift to the space kit company. We sent a piece of the asteroid that had lamaged our lab. It turns out there was gold in it. What a well-deserved reward!

Writing Rubric

NGReach.com Assessment Master A7.41

Week 3 Assessment & Reteaching

= TESTED

Assess

OBJECTIVES

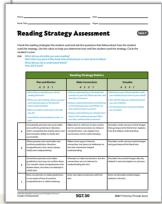
Reading

- Comprehend Plot
- Form Generalizations to Comprehend Literature

ASSESSMENTS







Reading Comprehension Test A7.16-A7.17

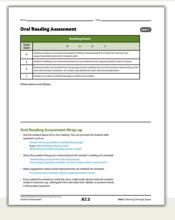
Reading Strategy Assessment SG7.30–SG7.31

Fluency

- **Expression**
- Accuracy and Rate







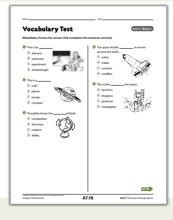
Oral Reading Assessment

A7.1-A7.3

Use these passages throughout Unit 7. Work with Above Level students this week.

Vocabulary and Spelling

- **☑** Use Domain-Specific Words
- **☑** Use Academic Words
- Spell Words with VCV, VCCV Patterns
- ☑ Use Commonly Misspelled Words Correctly







Vocabulary Test A7.18–A7.19

Spelling Pretest/ Spelling Test T453s

Grammar and Writing

- **☑** Use Relative Adverbs
- **☑** Use a Concluding Sentence







Writing, Revising, and Editing Test A7.20–A7.21

Writing Rubric A7.41





Reteach and Practice

RESOURCES AND ROUTINES

Reading

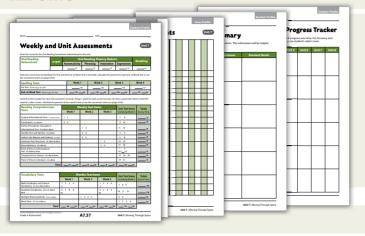
RETEACH

Plot: Reteaching Master RT7.7

Form Generalizations: Reteaching Master RT7.8

ADDITIONAL PRACTICE

REPORTS



PRINT & ONLINE

Report Forms

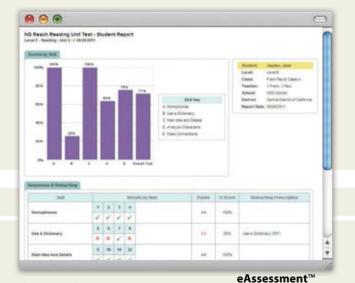
Student Profile: Weekly and Unit Assessments A7.37-A7.38 Class Profile: Weekly and Unit Assessments A7.39 **Student Profile:** Strengths and Needs A7.40 Student Profile: Oral Reading Progress Tracker A1.3

Fluency

RETEACH

Fluency Routines, page BP33

ADDITIONAL PRACTICE



Vocabulary and Spelling

RETEACH

Vocabulary Routine 6, page BP40

Spelling and Word Work Routine, page BP52

ADDITIONAL PRACTICE

Daily Spelling Practice, pages T453s-T453t

Grammar and Writing

RETEACH

Adverbs: Anthology Handbook, page 609 Writing: Reteaching Writing Routine, page BP51 Writing Trait: Organization: Reteaching Master RT7.9

ADDITIONAL PRACTICE

More Grammar Practice PM7.23

Daily Writing Skills Practice, pages T453w-T453x

ONLINE ONLY Automated Reports

Student Profile: Weekly and Unit Tests Class Profile: Weekly and Unit Tests

Standards Summary Report

Week 4 Planner



= TESTED Day 2 Day 1 WHOLE GROUP TIME **Listen and Comprehend Read and Comprehend** CC.4.SL.1.d Academic Talk **Academic Talk** CC.4.Rfou.4.a **Speaking and Listening** Discuss the Big Question T477q Preview and Predict T478c 5-10 minutes Daily Spelling and Word Work CC.4.Rfou.3; CC.4.Rfou.3.a; **Daily Spelling and Word Work** CC.4.Rfou.3; **Language and Vocabulary** VCCV, VCCCV Patterns T477k CC.4.Rfou.3.a; CC.4.L.2 Practice T477k CC.4.L.1.a; CC.4.L.2; CC.4.L.2.d; CC.4.L.2.g 20 minutes **Daily Grammar** CC.4.L.1 **Daily Grammar** CC.4.L.1 Prepositions T477m More Prepositions T477m Vocabulary Strategy Vocabulary Strategy CC.4.Rfou.3; CC.4.Rfou.3.a; CC.4.Rfou.3; CC.4.Rfou.3.a; Word Parts T477q-T477r More Word Parts T478c CC.4.L.4 CC.4.L.4 CC.4.Rfou.4.a CC.4.Rinf.9 Reading Reading Reading Read Aloud: Historical Nonfiction T478a Read a Biography Anthology 20-40 minutes Comprehension CC.4.Rlit.6 Comprehension CC.4.Rinf.1 Compare Points of View T478a Form Generalizations Points of View CC.4.Rinf.1 Fluency CC.4.Rfou.4 **Fluency** CC.4.Rfou.4 Model Phrasing T478a Practice Phrasing, Accuracy, and Rate T479 Power Writing T477q CC.4.W.9.b Power Writing T478c Writing **Daily Writing Skills Daily Writing Skills** CC.4.W.3 CC.4.W.3 Maintain Point of View T477o Maintain Point of View T477o 15-45 minutes Writing CC.4.W.9.b CC.4.W.9 Write with a Point of View T478b Write a Response T481 Writing Project: Personal Narrative CC.4.W.3; CC.4.W.5; Writing Project: Personal Narrative CC.4.W.3; CC.4.W.5; Study a Model T484 Prewrite T484 CC.4.W.10 CC.4.W.10

SMALL GROUP READING TIME

Fiction & Nonfiction

20 minutes

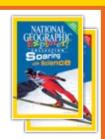
Read Science Articles

Vocabulary CC.4.L.6 Learn Science Vocabulary SG23

Reading CC.4.Rinf.3 Explain Ideas SG22

Build CC.4.Rinf.10

Comprehension SG23



Read Nonfiction Books

Vocabulary CC.4.L.6 Learn Story Words SG24–SG25

Reading

SG26-SG27

Introduce SG24–SG25

Read and Integrate CC.4.Rlit.10
Ideas SG26–SG27

Form Generalizations CC.4.Rlit.10

SG26–SG27

Describe Characters CC.4.Rlit.2;
and Events CC.4.Rlit.3



LEARNING STATION TIME



20 minutes



 Speaking and Listening T477i
 CC.4.SL.1; CC.4.SL.2

 Language and Vocabulary
 T477i
 CC.4.L.6

 Writing T477i
 CC.4.L.2; CC.4.W.3; CC.4.W.3.b

 Cross-Curricular T477j
 CC.4.W.4; CC.4.W.7; CC.4.SL.5

 Reading and Intervention T477j, SG68
 CC.4.Rfou.3; CC.4.Rfou.3.a; CC.4.Rfou.3.a; CC.4.Rfou.4.c

Big Question What does it take to explore space?

Day 3	Day 4	Day 5
Read and Comprehend	Read and Comprehend	Review and Apply
Academic Talk CC.4.SL.4 Talk Together T482	Academic Talk CC.4.Rinf.6 Discuss Generalizations T483d	Academic Talk CC.4.SL.1.a Relate Readings to the Big Question T483h
Daily Spelling and Word Work CC.4.Rfou.3; CC.4.Rfou.3.a; ✓ Practice T477l CC.4.L.1.g; CC.4.L.2; CC.4.L.2.d	Daily Spelling and Word Work CC.4.L.2.d Practice T477I	Daily Grammar CC.4.L.1 ☐ Review and Assess T477n
Daily Grammar CC.4.L.1 ✓ Prepositional Phrases T477n Vocabulary Review CC.4.L.4; CC.4.L.6 ✓ Science and Academic Vocabulary T481a	Daily GrammarCC.4.W.5; CC.4.L.1; CC.4.L.3✓ Grammar and Writing T477nVocabulary PracticeCC.4.Rfou.3; CC.4.Rfou.3.a;✓ More Word Parts T483cCC.4.L.4	Vocabulary Practice CC.4.Rfou.3; CC.4.Rfou.3.a; ✓ Word Parts T483e CC.4.L.4
Comprehension Compare Fiction and Biography T481a CC.4.Rlit.1; CC.4.Rlit.9; CC.4.Rinf.1; CC.4.Rinf.9; CC.4.Rfou.4.a	Reading CC.4.Rinf.6 Read Firsthand and Secondhand Accounts T483–T483b Comprehension CC.4.Rinf.6 Compare and Contrast Accounts T483a	Comprehension Compare and Contrast Accounts T483g
Fluency CC.4.Rfou.4 ✓ Practice Phrasing T482	Fluency CC.4.Rfou.4 ✓ Model and Practice Phrasing T483b	
Power Writing T481a Daily Writing Skills CC.4.W.3 ✓ Maintain Point of View T477o Writing CC.4.L.1; CC.4.L.3 Write to Reinforce Grammar T483	Power Writing T483c CC.4.W.9 Daily Writing Skills CC.4.W.3 ✓ Maintain Point of View T477o Writing CC.4.W.9 Write About Accounts T483d	Power Writing T483e CC.4.W.9.b Daily Writing Skills CC.4.W.3 Maintain Point of View T4770 Writing CC.4.W.9.b Write About Point of View T483g
Writing Project: Personal Narrative CC.4.W.3; CC.4.W.5; Get Organized/Draft T484–T485 CC.4.W.10	Writing Project: Personal Narrative CC.4.L.1; CC.4.L.1.e; Revise; Edit and Proofread T486 CC.4.L.3	Writing Project: Personal Narrative CC.4.W.3; Publish T487 CC.4.W.5; CC.4.W.10
Read Nonfiction Books	Read Nonfiction Books	Read Nonfiction Books

Vocabulary CC.4.L.6 Learn Story Words SG24-SG25

Reading

SG26-SG27

Introduce SG24-SG25

Read and Integrate CC.4.Rlit.10 Ideas SG26-SG27

Form Generalizations CC.4.Rlit.10 SG26-SG27

Describe Characters CC.4.Rlit.2: and Events CC.4.Rlit.3



Vocabulary Learn Story Words SG24-SG25

Reading

Introduce SG24-SG25 Read and Integrate CC.4.Rlit.10 Ideas SG26-SG27

Form Generalizations CC.4.Rlit.10 SG26-SG27

Describe Characters CC.4.Rlit.2: and Events CC.4.Rlit.3 SG26-SG27



Vocabulary **Expand Vocabulary** Through Wide Reading

SG24-SG27 Reading

Connect Across Texts SG27

Writing CC.4.W.10 Choose a Writing Option SG26-SG27



ASSESSMENT & RETEACHING

CC.4.L.6

Assessment and Reteaching T478a-T478b

Reading Comprehension CC.4.Rinf.1; CC.4.Rinf.2 Unit Test A7.22-A7.29

Reading Strategy Assessment CC.4.Rlit.10 SG57-SG58

✓ Oral Reading Assessment A7.1–A7.3 CC.4.Rfou.4.a

Vocabulary Unit Test A7.30 – A7.32 CC.4.L.4.b; CC.4.L.6

Spelling Test: VCCV, VCCCV Patterns CC.4.Rfou.3; CC.4.Rfou.3.a; CC.4.L.1.g; CC.4.L.2; CC.4.L.2.d; CC.4.L.2.g

Writing, Revising, and Editing Unit Test CC.4.W.10; A7.33-A7.36 CC.4.L.1; CC.4.L.3 Reteaching Masters RT7.10-RT7.13

Week 4 Learning Stations

Speaking and Listening

Option 1: Watch Neil Armstrong on the Moon

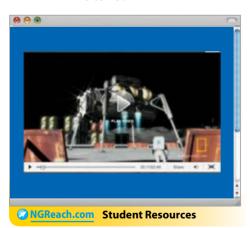


Have students retell the events that led to Armstrong's walk. To view the video, have students go to Resources > Unit 7 > Learning Stations > Week 4 > Man on the Moon.

Have one partner retell the events using his or her own words. Have the other partner list the events as told. Then have partners rewatch the video and reverse roles.

Paraphrase Text, Visual, and Oral Information CC.4.SL.2

Option 2: What's in Moon's Future?



Have student's view and discuss a video about the future of moon research. To view the video, have students go to Resources > Unit 7 > Learning Stations > Week 4 > Moon Colony.

Discuss Topics, Building on Others' Ideas and Expressing Ideas Clearly CC.4.SL.1

Language and Vocabulary

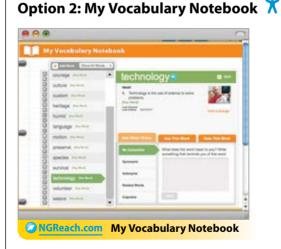
Key Words

astronaut capacity clarify constant generalization launch limit orbit planet resistance rotation technology

Option 1: Vocabulary Games 🟋



Acquire and Use Conversational, General CC.4.L.6 Academic, and Domain-Specific Words



Have students expand their word knowledge.

- Under Add More Information > Use This Word > Write a Sentence, have students use the Key Words in prepositional phrases.
- Under Add More Information > Use This Word > Write More, have students use the Key Words to write first-person paragraphs.

Acquire and Use Conversational, General Academic and Domain-Specific Words

CC.4.L.6

Writing

Option 1: What Did You Say?



PROGRAM RESOURCES

Language and Literacy Teamwork Activities:

Digital Library: Language Builder Picture Cards E86-E89

Teacher's Guide on **MGReach.com Student Resources Directory**

Use Dialogue CC.4.W.3.b **Demonstrate Command of Punctuation** CC.4.L.2

Option 2: Write About Your X **Moon Landing**

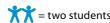
If I were the first human to land on the moon, I would say...

Display the writing prompt:

Imagine that you were the first human to walk on the moon. What would you do? What would you say? Describe what would happen as you set foot on the moon.

Write Narratives Use Dialogue

CC.4.W.3 CC.4.W.3.b





Cross-Curricular

Option 1: Race to the Moon 💥



PROGRAM RESOURCES & MATERIALS

Cross-Curricular Teamwork Activities: Card 45 Digital Library: Language Builder Picture Cards E90-E91

Teacher's Guide on MGReach.com

encyclopedia • books about space • colored markers

CC.4.W.7 **Conduct Research** Add Visual Displays to Presentations CC.4.SL.5

Option 2: Space Speeds XXX



PROGRAM RESOURCES

Cross-Curricular Teamwork Activities: Card 46 Teacher's Guide on WGReach.com **Student Resources Directory**

Use Appropriate Development and Organization CC.4.W.4

Reading

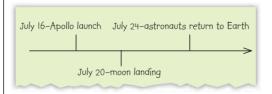
Option 1: Read Unusual Facts 🟋 About the Moon Landing



Have students read a list of unusual facts about the 1969 moon landing. To view the facts, have students go to Resources > Unit 7 > Learning Stations > Week 4 > Unusual Facts About the First Moon Landing. Have students identify the most interesting fact and restate the fact as an exclamation.

Explain Events CC.4.Rinf.3 Read and Comprehend Informational Texts CC.4.Rinf.10 Paraphrase Text, Visual, and Oral Information CC.4.SL.2

Option 2: Read Other Stories About the Moon Landing



MATERIALS

books about the moon landing: T-Minus by Jim Ottawari, One Small Step by Jerry Stone, and Mission to the Moon by Alan Dyer

Have students read books they haven't read before about the first moon landing, create time lines to show key events of the landing, and then discuss their time lines with a partner.

CC 4 Rinf 3 **Explain Events** Read and Comprehend Informational Texts CC.4.Rinf.10

Intervention

Option 1: Phonics Games 🔭



Apply Phonics and Word Analysis Skills CC.4.Rfou.3 Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words CC.4.Rfou.3.a

For Reteaching Masters, see pages RT7.10-RT7.13.

Additional Resources

Reach into Phonics ****



Lesson 110

Use Context to Confirm or Self-Correct Word Recognition and Understanding

ESL Kit XXX



ESL Teacher's Edition pages T478a-T489

CC.4.Rfou.4.c

Week 4 Daily Spelling & Word Work

OBJECTIVES

Thematic Connection: Exploring Space

Spell Multisyllabic Words with VCCV, VCCCV **Patterns**

Use Commonly Misspelled Words Correctly

SUGGESTED PACING

DAY 1 Pretest

DAY 2-4 **Daily Practice Options**

DAY 5

Spelling Pretest

XXX

Spelling Test

Spelling Words

Use these words and sentences for the weekly Spelling Pretest and Spelling Test.

Multisyllabic	Words with VCCV, VCCCV Patterns
1. altitude	What is the highest <i>altitude</i> above Earth that the rocket can reach?
2. astronomy	Since you are interested in stars and planets, you should study <i>astronomy</i> .
3. calculate	How do scientists figure out, or <i>calculate</i> , the distance between a star and Earth?
4. commitment	My friend made a commitment to do a science project with me, but he didn't keep his promise.
5. constellation	Is that pattern of bright stars the <i>constellation</i> Orion?
6. constitute	Some workers constitute the crew on the ground, and others make up the crew in the spacecraft.
7. emblem	The Space Club badge looks like our school emblem .
8. mechanic	The <i>mechanic</i> repaired a broken part on the shuttle.
9. packet	The astronaut opened a <i>packet</i> , or little bag, of food.
10. pursuit	The chase is really exciting because a space monster is in <i>pursuit</i> of the spaceship.
11. restrain	During the moon landing, did you scream and shout with excitement, or did you <i>restrain</i> yourself?
12. sensation	The feeling, or sensation , of being on the moon must be amazing.
13. tinkering	The rocket is finished, so we can stop tinkering with it and just leave it alone.
14. turbulent	The launch was cancelled because of violent, turbulent weather.
15. vibration	When the rocket blasted off, I felt a buzzing <i>vibration</i> .
Watch-Out W	ords
16 shana	The many change like a glooming nearly

16. shone	The moon shone like a gleaming pearl.	
17. shown	I have shown my photo to everyone I know, and they all noticed my smile!	

VCCV Pattern

Day 2



Option 1

MATERIALS

small pieces of poster board • scissors

Teach

Display the word *altitude*, circle it, and pronounce the word. Underline the letters a-l-t-i, circle the two consonants, and explain: When two consonants come between two vowels, you usually divide the word between the two consonants. Display these exceptions: me|chanic, pack|et, vi|bration. Circle the blend or digraph in each word and explain that blends and digraphs do not get divided.

Prepare

- Have partners cut a small picture frame out of poster board. The opening should be about 1 ¼ " x ¾", or the proper size to show four letters in a word on one line.
- Have partners collaborate to print a list with the words altitude, calculate, commitment, pursuit, sensation, tinkering, and turbulent, sizing and spacing the letters so that four letters at a time will appear in the frame.

Play a Game

Have students take turns framing the VCCV letters in each word, showing where each word gets divided.

- Then have one partner take the list and read aloud the first four words for the other partner to spell.
- Have partners switch roles and continue with the last three words.
- Students get one point for every word spelled correctly.

Apply Phonics and Word Analysis Skills	CC.4.Rfou.3
Use Letter-Sound Correspondences, Syllabication Patterns, and	
Morphology to Read Multisyllabic Words	CC.4.Rfou.3.a

Word Sort

Day 2



Option 2

Prepare

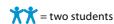
Have each partner divide a paper into four wide columns, with the headings 1, 2, 3, and 4.

Play a Game

- Have Partner 1 read the first eight spelling words aloud.
- Have Partner 2 determine the number of syllables in each word and write the word in the corresponding column. Students score one point for the correct number of syllables and one point for giving the
- · Have partners switch roles for the next nine words. At the end of the game, the player with more points wins.

Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words Spell Grade-Appropriate Words

CC.4.Rfou.3.a







VCCCV Pattern

Day 3



Option 1

MATERIALS

index cards, 4 per pair of students • highlighters • scissors • tape

Teach

Display em|blem, underline mbl, and say the word. Underline the three consonants and circle the blend bl. Explain: When three consonants come between two vowels, you usually divide the word before or after a blend or digraph.

Display this exception: re|strain. Point out the re and str, explaining that prefixes do not get divided.

Prepare

- Have pairs make separate word cards for astronomy, constellation, constitute, and emblem. Have them highlight the blend tr, st, or bl in
- Have pairs cut each word in two, before the blend, and scatter the cards face up.

Play a Game

· Have pairs take turns matching word parts to recreate each set of words. Have them read the words together.



- Then tell students to tape the cards back together and turn them over.
- Have pairs take turns turning over a card and reading it aloud for the other to spell and use in a sentence.

Apply Phonics and Word Analysis Skills Use Letter-Sound Correspondences, Syllabication Patterns, and Morphology to Read Multisyllabic Words

CC.4.Rfou.3

CC.4.Rfou.3.a

Poetry

Day 3



Option 2

CC.4.L.1.g CC.4.L.2

CC.4.L.2.d

MATERIALS

print or online dictionaries

Write a Poem

Have small groups create a silly or serious poem using the Watch-Out Words and as many other spelling words as possible.

To win the astronomy prize-What a great sensation! When we were shown our ribbon, Our eyes shone like a constellation!

After writing their poems, have students use a dictionary to see that they have used each Watch-Out word correctly.

Use Frequently Confused Words Demonstrate Command of Spelling Consult References

Trace Words

Day 4



Option 1

MATERIALS

tracing paper

Prepare

Have students write each spelling word, and then use tracing paper to draw an outline around each word.

Practice

- Tell partners to exchange tracing papers.
- Have students write the correct word in each outline.

Spell Grade-Appropriate Words

CC.4.L.2.d

Oh, No! Option 2 Day 4 XXX

MATERIALS

index cards, 18 per pair of students • timer

Prepare

Have pairs of students collaborate to write each spelling word on a separate card and "Oh, no!" on the remaining card.

Play a Game

- Have partners work with another pair, shuffling all the cards and placing them face down in a pile.
- · Have players take turns selecting a card and reading it to the player on his or her right. That player spells the word. If it is correct, the speller keeps the card. If not, it goes back in the pile. If a student draws "Oh, no!", all of his or her cards go back in the pile.
- · When time is called, the player with the most cards wins.

Spell Grade-Appropriate Words

CC.4.L.2.d

Week 4 Daily Grammar

OBJECTIVES

Thematic Connection: Exploring Space

Grammar: Use Prepositions

Use Prepositional Phrases

COMMON CORE STANDARDS

Edit Writing

Demonstrate Command of Grammar Use Knowledge of Conventions

CC.4.W.5 CC.4.L.1

CC.4.L.3

Day 1

PROGRAM RESOURCES

MATERIALS

Prepositions: eVisual 7.30 Game: Practice Master PM7.24 coins • small paper bags

Teach the Rules

Use the suggestion on page T478b to introduce prepositions. Then display eVisual 7.30. Explain that prepositions link a noun or pronoun to other words in a sentence.

Prepositions

 Some prepositions tell locationwhere something is. A space vehicle landed **on** the moon.

The shuttle circled **above** Earth.

 Some prepositions tell **time**—when something happens.

After three days, the shuttle returned.

⊘ NGReach.com Prepositions: eVisual 7.30

Display prepositions of location: above, over, under, below, beneath, beside, next to, by, near, in front of, behind, in back of, between, in, out, inside, outside, on, off.

Display prepositions of time: before, during, after, in, on, at, from, to.

Play a Game XXX

Arrange groups of three or four. Distribute Practice Master PM7.24 and coins.

Grammar: Game Preposition Clues before next to between near beside from ____ to __ Chaire Corports Lawring apart of Seasons with TS in TAYRO PM7.24

NGReach.com Practice Master PM7.24

Differentiate

SN Special Needs

ISSUE Students are confused by verbal descriptions of prepositions that show location.

STRATEGY Distribute paper

bags. Have partners take turns demonstrating each preposition aloud using this sentence frame: My pencil is _____ the bag.

Day 2

PROGRAM RESOURCES

MATERIALS

More Prepositions: eVisual 7.33 **Game: Practice Master PM7.25**

timer

Teach the Rules

Use the suggestion on page T481 to introduce more prepositions. Display and read aloud eVisual 7.33.

More Prepositions

 Some prepositions show **direction**—where something is going: up, down, through, across, around, into

The comet whizzed **across** the sky.

Some prepositions have **many** uses: about, against, along, among, at, except, for, from, of, to, with, without

I studied the space race in school.

We saw the launch **in** July.

ONGReach.com More Prepositions: eVisual 7.33

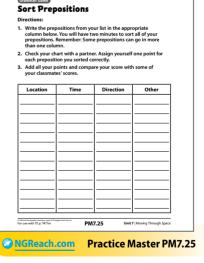
Play a Game X

Before distributing the Practice Master, tell

students: On a separate sheet of paper, list as many prepositions as you can in two minutes. Score a point for each one you list. Give students

two minutes, then distribute Practice Master PM7.25.

Read aloud the directions before students start.

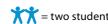


Differentiate

EL English Learners

ISSUE Spanish prepositions may not correspond to those in English.

STRATEGY Guide students to correct their preposition errors and create another sentence using the same preposition correctly.







Day 3

PROGRAM RESOURCES

Prepositional Phrases: eVisual 7.35

Teach the Rules

Use Anthology page 483 to teach prepositional phrases. Then reinforce with eVisual 7.35.

Prepositional Phrases

• A **phrase** is a group of words. It may have a subject or a verb, but it does not have both.

After three days, the astronauts were **beyond** the moon.

 A prepositional phrase begins with a preposition and ends with a noun or pronoun. A bright star is **near the** moon.

It shines down **on us**.

Prepositional Phrases: eVisual 7.35

Play a Game ***

Have groups create a story with prepositional phrases. Have students sit in a circle and choose a recorder. Explain:

- Player 1 says a sentence to start a story about a space trip.
- Player 2 adds a prepositional phrase to the sentence. The recorder keeps track and reads back the sentence as needed.
- Players add prepositional phrases until a player can't add more.

Differentiate

BB Below Level

ISSUE Using adverbs instead of prepositions in prepositional phrases.

STRATEGY Model, using hand gestures: A prepositional phrase needs a noun or pronoun. My hand is above...what? It is above my head. The answer to "what?" is the noun or pronoun. Have students choose a preposition of location and of direction and write prepositional phrases, answering the question "what?" for each one.

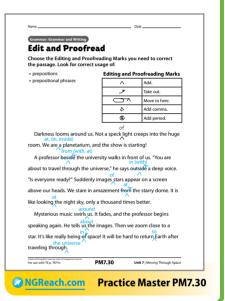
Day 4

PROGRAM RESOURCES

Grammar and Writing: Practice Master PM7.30

Grammar and Writing X

Distribute Practice Master PM7.30. Have students use editing and proofreading marks to correct errors with prepositions and prepositional phrases.



Day 5

PROGRAM RESOURCES

Writing, Revising, and Editing Unit Test: Assessment Masters A7.33-A7.36

Review and Assess XX

Have partners add prepositional phrases, even silly ones, to the blanks in the sentences below. Have them write L, T, D, or O next to each prepositional phrase to tell whether it shows location, time, direction, or is used for some other purpose.

1. We rode our bikes	
2 we had a party	
3. The game was exciting	
4. The kids ran	

✓ Administer the Writing, Revising, and Editing Unit Test.

Week 4 Daily Writing Skills

OBJECTIVE

Thematic Connection: Exploring Space

Maintain Point of View

COMMON CORE STANDARDS

Write Narratives

CC.4.W.3

Introduce Point of View

Day 1



PROGRAM RESOURCES

Point of View Passage #1: eVisual 7.31

Teach the Skill

Review: Point of view is the "voice" in which a story is told. If the narrator is part of the action, the first-person point of view is used. If the narrator is not part of the action of the narrative, the third-person point of view is used.

Explain that when writing a personal narrative, a writer uses first-person point of view to describe his or her own experiences. However, the writer may also need to use the third-person point of view. The writer must use the third-person point of view to describe the actions, words, and thoughts of other people.

Display eVisual 7.31 and have a volunteer read it aloud.



Point of View Passage #1

For our presentation, Risa and I did research about the Hubble telescope. We found out when the Hubble was sent into space. We also learned about the discoveries scientists have made by studying the telescope's pictures. Risa wanted to show some of the pictures during the presentation. She wrote captions to go along with the pictures she liked best.

Passage #1: eVisual 7.31



Help students identify first- and third-person point of view in the passage by asking the following questions:

- Which sentences describe the actions of the narrator? (1, 2, and 3)
- Which pronouns do these sentences use? (I and we)
- Which sentences describe the actions of someone other than the narrator? (4 and 5)
- How can you tell? (They don't contain the pronouns I and we. They only describe Risa's actions.)

Explain that it is important to maintain the correct "voice," or point of view, in each sentence of a narrative. Explain that this is especially important when the point of view changes within a passage, as it often does in a personal narrative.

Identify Point of View

Day 2



Option 1

Introduce

Remind students that two points of view are often used in a narrative. Tell them that occasionally a compound sentence may be written using both points of view.

Practice

Arrange students in pairs and have them reread **Anthology** pages 462–463 of "The Moon Over Star." Tell students to identify which sentences (or parts of sentences) are written in the first-person point of view and which are written in the third-person point of view.

Then have partners reread the text aloud. Tell one student to read the sentences (or parts of sentences) that use the first-person point of view. Have the other student read the sentences that use the third-person point of view.

Then have partners discuss why the writer switched back and forth.

Switch Points of View



Option 2

Introduce

Arrange students in pairs and tell them to think about the character of Gramps in "The Moon Over Star."

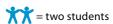
Practice

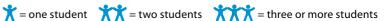
Have each pair of students work together to write Gramps's personal narrative about the day of the moon landing. Remind them to use both first- and third-person points of view, depending on whose thoughts or actions are being described.

When students have finished their personal narratives, have them exchange papers with another pair of students and point out which point of view is used in each sentence and why.

Tell students to point out any incorrect switches in point of view.

Most of the family was so happy when the astronauts landed on the moon, but I didn't feel very excited.





Day 4

XX



SUGGESTED PACING

DAY 1 Teach the Skill DAY 2-4 Daily Practice Options DAY 5 **Review and Assess**

PROGRAM RESOURCES

Correct the Points of View

Point of View Passage #2: eVisual 7.36

Day 3



Option 1

PROGRAM RESOURCES

Point of View Passage #3: eVisual 7.37

Introduce

Understand Point of View Switches

Point of View Passage #3

Dad, Mom, and my brothers were asleep when the sun started coming up. It was the first day of our family vacation to Mountain Park on Mars. Everyone was asleep, except me. Sadly, _ missed the best part of the trip! But not me, ____ was awake. watched as the Earth rose over the horizon. The view was amazing. It made _____ see the world in a whole new light. Soon, _ parents and brothers would wake up, and ____ would try to describe what _____ had seen. ____ would never understand _ had missed!

NGReach.com Point of View Passage #3: eVisual 7.37



INTERACTIVE WHITEBOARD TIP: Circle the pronoun *me* to help students identify the narrator.

Arrange students in pairs and display eVisual 7.37.

Introduce

Point of View Passage #2

Arrange students in small groups and display eVisual 7.36.

What a journey! So, there I was, Dina by name, on my way home from Moon Camp. Cousin Elio had been there with me, so he came home on the same camp space ship. The space ship was crowded, and we became cranky. I said, "Elio, move over, you're squashing the snacks." Suddenly, their juice packs burst open and juice started floating all around the cabin! The campers were covered with sticky purple liquid. Dina thought to herself, "That's the last time I sit with Cousin Elio!"

Remind students that the point of view should not change in ways that would be confusing to the reader. Briefly review first and third person.

NGReach.com Point of View Passage #2: eVisual 7.36



Practice

Have students read the passage together, identify the narrator (Dina), and find the sentences that do not correctly reflect Dina's first-person point of view. (the last three)

After students have identified the incorrect sentences, have them rewrite that part of the passage in the correct point of view. When they are finished, have them read the story together and discuss why it makes more sense.

Write a Personal Narrative

Day 3



XXX Option 2

PROGRAM RESOURCES

Digital Library: Language Builder Picture Cards E89-E90

Practice

Have small groups of students choose Language Builder Picture Card **E89** or **E90**. Tell them to write a personal narrative in the voice of the person shown. Encourage them to make use of both points of view as they tell what the person might be experiencing and how others nearby might think or act.

Practice

Have partners rewrite the passage, completing each blank with the correct pronoun. When all the pairs are finished, invite one pair of students to read the completed passage aloud.

Review and Assess

XX

PROGRAM RESOURCES

Writing, Revising, and Editing Unit Test: Assessment Masters A7.33-A7.36

Review the Skill

Have partners plan and write a narrative about an imaginary visit to a star. Remind them to think about the pronouns that should be used when describing their own thoughts and actions, and the pronouns to use when describing the thoughts and actions of other people.

Evaluate their work.

☑ Administer the **Writing**, **Revising**, **and Editing Unit Test**.

Listen and Comprehend

OBJECTIVES

Thematic Connection: Exploring Space Use Roots to Determine Word Meanings Compare Points of View

PROGRAM RESOURCES

TECHNOLOGY ONLY

Read Aloud: eVisual 7.29

MATERIALS

timer • index cards • markers

Power Writing

Have students write as much as they can as well as they can in one minute about the word orbit.

For Writing Routine 1, see page BP47.

WARM-UP

Review "The Moon Over Star" with students by pointing to the illustrations on **Anthology** pages 462, 465, and 471. Have students tell the story ideas depicted by these illustrations.

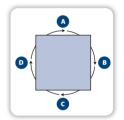
Academic Talk

1 Discuss the Big Question

Remind students that when they report on a topic or concept, they should use formal language. Model using formal language to report on astronauts: The first American astronauts rode capsules propelled into space by rockets. They were **launched** into **orbit** around our **planet** Earth. Ask: What makes this formal language? (Possible response: The grammar is correct, and there is no slang.)

Use **Team Word Webbing** to have small groups explore the Big Question as it relates to the reading for Week 1.

- Give each team a large piece of paper and markers.
- Assign "Space Exploration" as the topic.
- Each team member adds to the nearest part of the word web. On a signal, team members rotate and add to the part of the web closest to them.



Team Word Webbing

Ask groups to discuss their responses to the Big Question. Remind them to use formal language.

For **Team Word Webbing**, see page BP46.

Vocabulary Strategy



2 Word Parts 478 Anthology page 478

Explain: Many roots in English come from Latin, Greek, and other old languages. Roots have meaning, but they are not words by themselves. Project **Student eEdition** page 478 and read aloud the introduction. Explain: *Because the Greek* root astro means "star," I know that astronomy has something to do with stars. Astronomy *means "the study of the stars."* Have volunteers read the chart aloud.

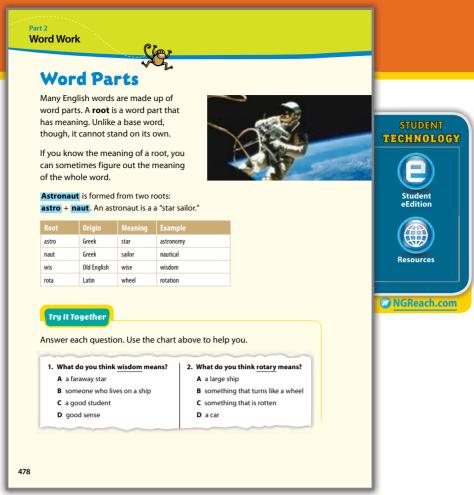
Model using the strategy: First I look for the root in the word. The word rotate has the root rota, so rotate must have to do with wheels. The word rotate means to turn around a center, as a wheel would turn. Repeat with the word astronomer (one who studies astronomy). Then write the following roots and their meanings: cycl (circle or ring) and mot (to move). Repeat with cyclone, bicycle, motion, and motivate.

See **Differentiate**

COMMON CORE STANDARDS

Reading **Compare Points of View** CC.4.Rlit.6 CC.4.Rinf.9 Integrate Information from Two Texts Apply Word Analysis Skills CC 4 Rfou 3 Use Morphology to Read CC.4.Rfou.3.a Multisyllabic Words Read with Fluency to CC.4.Rfou.4 **Support Comprehension** Writing Apply Grade 4 Reading Standards CC.4.W.9.b Speaking and Listening **Explain Ideas and Understanding** CC.4.SL.1.d Language and Vocabulary CC.4.L.4 **Determine Meanings of Words**

and Phrases



Anthology page 478

3 Try It Together Anthology page 478

Read the directions aloud and have partners work together to answer the questions. (question 1: D; question 2: B)

Check & Reteach

OBJECTIVE: Use Roots to Determine Word Meanings

Assess students' understanding of the word parts by circulating and checking their answers to Try It Together.

If students have difficulty, explain that not every part of every word is a root. Remind students that words have other parts, such as prefixes and suffixes. A root gives the main meaning of the word. Model this by re-examining the chart: In the word astronomy, astrois the root. Astro-means "star." The word part "nomy" is a suffix that means "knowledge." Tell students they can use a dictionary to look up the meanings of other word parts. Direct students' attention to question 1. Explain: The question asks for the meaning of the word wisdom. I look at the word chart and find a related root: wis-. The chart tells me that the meaning of this root is "wise." So I look for an answer choice that has something to do with being wise. It's choice D, "good sense." Then have a volunteer explain the process of finding the correct answer for the word rotary in question 2.

Weekly Writing

Gather students' writing throughout the week.

- ✓ Daily Writing Skills Practice (T4770–T477p)
- √ Power Writing (T477q, T478c, T481a, T483a, T483e)
- √ Writing (T478b, T481, T483, T483d, T483g)
- √ Writing Project (T484–T487)

Differentiate

EL English Learners

ISSUE Students lack proficiency to apply roots to English words.

STRATEGY Have students think of words in their native languages (if possible) that make use of the same roots shown in the chart. Have them apply the meanings of these words to the English words.

AL Above Level

ISSUE Students have already mastered understanding of words in the lesson.

STRATEGY Provide more challenging words, such as astrobiology and rotator. Have students use their knowledge to guess the meanings and then use reference sources to check them.

Listen and Comprehend

Historical Fiction

Fluency

Model Phrasing As you read the Read Aloud, model appropriate phrasing. Explain: When you read with appropriate phrasing, you group words together to support the meaning of the text.

Best Practices

Encourage Respect Have students repeat what the person before them said before they express their own ideas. Provide an example: You said that "The Moon Over Star" and "Inspiring the World" were both from the point of view of a girl. The difference between them, though, is that "The Moon Over Star" is in the first person, while "Inspiring the World" is in the third person.

Comprehension



Review that in first-person point of view, the narrator is part of the story and uses the pronouns we and I. Introduce: In third-person point of view, the narrator is not part of the action and only describes what others say and do. Both points of view use the pronouns he, she, and they when describing others. Remind students that both points of view can be used for either fiction or nonfiction.

Display eVisual 7.29 and read aloud the first paragraph of "Inspiring the World." Model identifying the point of view: *In the first paragraph, the narrator describes* only what others did. The narrator is an observer and is not part of the action. So, I think this is written in third-person point of view. Read the rest of the text aloud.



Read Aloud

Historical Fiction

Inspiring the World

On July 20, 1969, about 600 million people around the world watched the same event on television. They watched as **astronauts** landed on the moon for the first time in history. The astronauts were in an American spacecraft called the *Eagle*. It was different times of day, and even different seasons, in different countries, but people across the **planet** were thrilled about this bold new adventure.

It was a summer day in Japan. A girl named Kyoko saw the pictures of the lunar module and thought, "Wouldn't it be great to design rocket ships!" When she grew up, she worked for her country's space agency to help **launch** satellites.

It was a winter day in Australia. A boy named Shawn looked with amazement at the footage from the moon and told himself, "I want to make movies about outer space when I grow up." Twenty years later, he was creating computer graphics for films about space.

The moon landing inspired millions of people, each in his or her own way. Its effects on human history cannot be measured, but they have been great.

NGReach.com Read Aloud: eVisual 7.29



Have partners identify other clues to point of view in the **Read Aloud**. Discuss how the word I in the third paragraph is not first-person narration. Then have partners look at **Anthology** page 462 and identify the narrator and point of view in "The Moon Over Star." Have them compare the points of view of "Inspiring the World" and "The Moon Over Star." Discuss how Mae's account differs from the narrator's account in "Inspiring the World." Compare the type of information each account gives. (Mae's account portrays the event through her eyes; "Inspiring the World" gives a variety of different viewpoints about the event.)

See **Differentiate**

Check & Reteach

OBJECTIVE: Compare Points of View

Check that students can identify which selection is in first-person and which is in thirdperson point of view and explain why.

If students have difficulty explaining the point of view of each selection, have partners write notes in which they tell each other about an event that has happened to them. Have them circle the pronouns they used. Explain that their notes are written in the first-person point of view because they are part of the event. Then have partners switch notes and revise them to reflect a third-person point of view, telling about something that happened to someone else.

Writing

6 Write with a Point of View

Model how to rewrite a paragraph, changing its point of view.

Think Aloud	Write
I'll change the first paragraph in "Inspiring the World" from the third person to the first person.	On July 20, 1969, about 600 million people around the world watched the same event on television. We watched as astronauts landed on the moon for the first time in history. They were in an American spacecraft called the Eagle. It was different times of day, and even different seasons, in different countries, but we were all thrilled about this bold new adventure.

For **Writing Routine 2**, see page BP48.

Have partners locate the fourth paragraph of "The Moon Over Stars" (beginning with "We decorate . . .") and rewrite it, changing the point of view from first to third person. Have students add their paragraphs to their Weekly Writing folders.

WRAP-UP Have students describe what it would be like to walk on the moon. Have them describe what they would see, think, and feel in the first-person point of view.



Daily Language Arts

Daily Spelling and Word Work 🗹 Pretest page T477k

Daily Grammar 🚺

Point out the title of the selection on **Anthology** page 479. Explain that on is a preposition. Then use page T477m to teach prepositions.

Daily Writing Skills 🌠

Point out that the **Read Aloud** is written in third-person point of view. Use page T4770 to teach point of view.

Differentiate

EL English Learners

ISSUE Students have difficulty remembering English personal pronouns.

STRATEGY Have partners of different fluency practice content-based sentences such as, "I want to be an astronaut" or "She wants to be an astronaut." As students say the sentences, have them point to themselves if the sentence is first person and to their partners if the sentence is third person. Then have them rephrase the sentences using the other point of view.

B Below Level

ISSUE Students are confused by the terms *first* person and third person.

STRATEGY Join in a group with two students. Ask: If you and I talk, do you call yourself I or he or she? (I call myself *I*.) From your point of view, you are the first person, the I. Then ask: If you and I were talking about someone else, would you call that person 1? Would you call the person he or she? (I would call the person he or she.) That point of view is called third person.

Provide practice with these sentence frames. For each sentence, have the student identify the point of view and then turn it into the other point of view. I would like to explore space.

would like to explore space	e. (He/She)
They watched the moon landing.	

2 Read and Comprehend Biography

OBJECTIVES

Thematic Connection: Exploring Space

Use Roots to Determine Word Meanings

Form Generalizations to Comprehend Literature

Compare Points of View

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Unit Concept Map: Practice Master PM7.1

Family Newsletter 7

TECHNOLOGY ONLY

Digital Library: Key Word Images My Vocabulary Notebook

timer

Power Writing

MATERIALS

Have students write as much as they can as well as they can in one minute about the word launch.

For **Writing Routine 1**, see page BP47.



WARM-UP

Have students recall details from "The Moon Over Star" to discuss what they know about Neil Armstrong, the first man on the moon. Have students make lists of their recollections.

Vocabulary Strategy

1 More Word Parts

Explain that today students will learn more about root words. Remind them that root words are different from base words, because root words cannot stand alone. Give examples: rotate vs. unload. Copy and display the chart below and model how knowing roots can help you figure out the meanings of many words: The root phon means "voice." When I see this root in a word, I know that the word has something to do with the sound of a person's voice. For example, I think of the words telephone and microphone. Then read the remaining roots and meanings.

Root	Origin	Meaning
phon	Greek	"voice"
cred	Latin	"believe"
dict	Latin	"speak"

Display the words phonics, incredible, and dictate. Have partners use the chart and talk about how the meaning of the root gives a clue to each word's meaning.

Check & Reteach

OBJECTIVE: Use Roots to Determine Word Meanings

Listen as partners discuss how roots relate to complete words.

If students do not understand the concept, write phon = "voice" and, below it, phonics = "how letter groups are spoken." Underline the root in the word phonics and the word spoken in the definition. Ask: How does the meaning of phon relate to the definition of phonics? (The word spoken refers to using the voice.)

COMMON CORE STANDARDS

Reading

Refer to Details and Examples CC.4.Rinf.1 When Explaining Text **Apply Word Analysis Skills** CC.4.Rfou.3 Use Morphology to Read CC.4.Rfou.3.a Multisyllabic Words Read with Fluency to CC.4.Rfou.4 **Support Comprehension** CC.4.Rfou.4.a Read with Purpose and Understanding

CC.4.W.9 **Draw Evidence from Texts**

Language and Vocabulary

Determine Meanings of Words CC.4.L.4

and Phrases

2 Preview and Predict

Academic Talk

Project **Student eEdition** page 479. Ask: What text features would you use to preview the biography? (title, byline, bold opening phrase, photo, caption) Have students predict what the selection will be about.



Anthology page 479

3 Read a Biography

CONNECT ACROSS TEXTS Remind students that the story they read, "The Moon Over Star," was fiction, but it contained information about historical events. Then have a volunteer read aloud **Connect Across Texts.**

GENRE Read aloud the explanation of the genre at the top of the page. Clarify: A biography tells more than just facts and dates. It describes the person's actions and personality. Everything in a biography should be based on facts.

SCIENCE BACKGROUND Tell students that of the three members of the Apollo 11 crew, two—Neil Armstrong and Edwin "Buzz" Aldrin—flew to the surface of the moon in a small lunar module. The third, Michael Collins, remained in orbit around the moon, piloting the craft that would take all three back to Earth.

Read and Build Comprehension

- Points of View State text narrated from Armstrong's first-person point of view or from the third-person point of view? (third person) How can you tell? (The narrator calls the astronaut Armstrong, and does not use the pronoun I.)
- **2 Form Generalizations to Comprehend Literature** ✓ *Make* a **generalization** based on the text of page 479. (Possible response: People all over the world are fascinated by space travel.)

Fluency

Practice Phrasing, Accuracy, Rate As students read, monitor their phrasing, accuracy, and rate.

Answers Before You Move On

- **1. Make Connections** Possible responses: To be the first person to walk on the moon would be exciting; It would be scary; It would be fun.
- **2. Paraphrase** When Armstrong, the man, took a step on the moon, human progress took a giant leap forward by showing it was possible to put a man on the moon.

Day 2

Read and Comprehend

Biography

Answers Before You Move On

- 1. Generalize ✓ Possible response: Being a hero means performing a courageous action that helps people or helps the world. The astronauts fit that meaning because it takes courage to fly into the unknown, and they advanced human knowledge by doing so.
- **2. Goal/Outcome** The Apollo program successfully achieved President Kennedy's goal of landing a man on the moon within the decade.

Best Practices

Encourage Respect As students discuss generalizations and share their thoughts on the author's purpose, encourage them to validate others' contributions. Provide examples:

- Good point.
- I hadn't thought of that.
- I disagree, but your point is good, too.

Dai

Daily Language Arts

Daily Spelling and Word Work 7Practice page T477k

Daily Grammar 🌠

Point out the preposition *at* in the phrase *at age sixteen* on **Anthology** page 480. Then use page T477m to teach prepositions.

Daily Writing Skills 🗹

Explain that the reading selection is written in third-person point of view. Then use page T4770 to practice maintaining point of view.

Read and Build Comprehension

- 1 Form Generalizations to Comprehend Literature

 What traits do you think a good astronaut must have? (Possible responses: love of flying, interest in technology, good training, military experience, bravery)
- 2 Use Text Features In the photo, what does Armstrong's uniform tell you about his job? (He is an astronaut, and he must wear special protective clothing to be safe in space.)
- Identify Author's Purpose What is the author's purpose for writing this biography? (Possible responses: to give information about an important historical figure; to inspire readers)

Check & Reteach

OBJECTIVE: Form Generalizations to Comprehend Literature

As students answer comprehension questions, check to see if they can form generalizations.

If students cannot form generalizations, guide them to synthesize specific information into a generalization.

- What do astronauts do? (fly through space)
- Who was called "the perfect person" to command the moon mission? (Neil Armstrong)
- What traits did he have? (flight training, military experience, love of flying)

Then have them complete this sentence frame: A good astronaut _____.

OBJECTIVE: Compare Points of View

As students answer the comprehension questions, check that they can identify different points of view in relation to biography.

If students have difficulty, ask: *How would this selection be different if Neil Armstrong were narrating it from the first-person point of view?* (Armstrong would call himself *I* in describing himself and narrating the events of the moon landing. He might reveal some of his thoughts and feelings.)

The Right Pilot for the Job

This amazing day was the result of years of hard work. In 1961, President John F. Kennedy wanted America to be the first nation to land humans on the moon and bring them back safely, NASA space scientists worked toward that goal At last they were ready to put people on the moon. Neil Armstrong was the perfect person to command the mission.

Armstrong was born in 1930 in Wapakoneta, Ohio. He loved flying, and he got his pilot's license at age sixteen. After graduating from college, he became a military pilot. In 1962 Armstrong joined NASA's astronaut program.

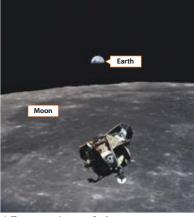


The astronauts left a small

mission project

In 1969 Armstrong became the commander of Apollo 11, the first lunar landing mission. He and his crew, Edwin "Buzz" Aldrin and Michael Collins, fulfilled the dream of a nation. When Apollo 11 returned safely to Earth. Armstrong was greeted as a hero.

Armstrong has received many awards, including the Presidential Medal for Freedom. Although he never walked on the moon again, he helped plan other space missions. He also taught spacecraft design at the University of Cincinnati. But he will always be remembered as the first person on the moon. *



The astronauts' return to Earth



▶ Before You Move On

- 2. Goal/Outcome Compare President Kennedy's goal with the outcome of the

Anthology pages 480-481

Writing

480

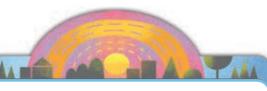
4 Write a Response

Have students write a response to the biography. Ask them to describe how a biography about Neil Armstrong is different from a news article about Armstrong's moon landing.

Model a response: Neil Armstrong was the first person to walk on the moon. He achieved something important that had never been done before. This biography includes information about Armstrong's life in addition to his work as an astronaut.

Tell students to use specific details from the text to support their ideas. Then have them add their responses to their Weekly Writing folders.

See **Differentiate**



WRAP-UP Ask small groups to discuss this question: Who is Neil Armstrong? Have groups create a list of as many true statements as they can think of from the biography. Then ask groups to explain how these lists compare to their lists from the Warm-Up.

Differentiate



SN Special Needs

ISSUE Students find it difficult to write their responses.

STRATEGY Adjust the assignment by having students identify specific details in the text about Armstrong's life, such as where he was born.

AL Above Level

ISSUE Students want more information than the text provides.

STRATEGY Ask students to include questions in their written responses that they would like to have answered.

Day 3 Review and Compare Historical Fiction and Biography

OBJECTIVES

Thematic Connection: Exploring Space

Compare Details

Grammar: Use Prepositional Phrases

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Comparison Chart: Practice Master PM7.26 Grammar Practice: Practice Master PM7.27

TECHNOLOGY ONLY

Grammar Passage: eVisual 7.34

MATERIALS

timer • index cards • large envelope

Power Writing

Have students write as much as they can as well as they can in one minute about *stars*.

For **Writing Routine 1**, see page BP47.

WARM-UP Have partners compare and

Have partners compare and contrast fiction and biography, using "The Moon Over Star" and "The First Person on the Moon" as examples. Ask volunteers to summarize their discussion for the class.

Vocabulary Review

1 Review Science and Academic Vocabulary

Project **Student eEdition** page 482 and point out the Key Words. Also display *clarify* and *generalization*. Chorally read all the words as a class. Pause after each word and have a volunteer give the definition.

Write each word on an index card and place the cards in a large envelope. Have a volunteer draw a card and display it for the rest of the class to see. Challenge students to write a sentence using the word. Repeat the activity until all index cards have been chosen.

Review and Integrate Ideas

2 Compare Fiction and Biography ✓ Anthology page 482

Read aloud the introduction on **Student eEdition** page 482. Remind students that "The Moon Over Star" is realistic fiction and includes real facts. Discuss the first two examples and which fact might be included in "The Moon Over Star."

Have partners reread "The First Person on the Moon" and review "The Moon Over Star." As they read, have students look for facts. Have them record the facts on **Practice Master PM7.26** and discuss the differences in the facts in the two stories.

COMMON CORE STANDARDS

Reading

Refer to Details and Examples When CC.4.Rlit.1 Explaining Text Compare Treatments of Similar CC.4.Rlit.9 Themes, Topics, and Patterns of Events Refer to Details and Examples CC.4.Rinf.1 When Explaining Text CC.4.Rinf.9 Integrate Information from Two Texts Read with Fluency to Support CC.4.Rfou.4. Comprehension Read with Purpose and CC.4.Rfou.4.a Understanding Speaking and Listening Report on a Text CC.4.SL.4 **Language and Vocabulary** Demonstrate Command of Grammar Use Knowledge of Language CC.4.1.3

CC.4.L.4

CC.4.L.6

Check & Reteach

OBJECTIVE: Compare Details **I**

Monitor students' ability to distinguish between fact and fiction in the story.

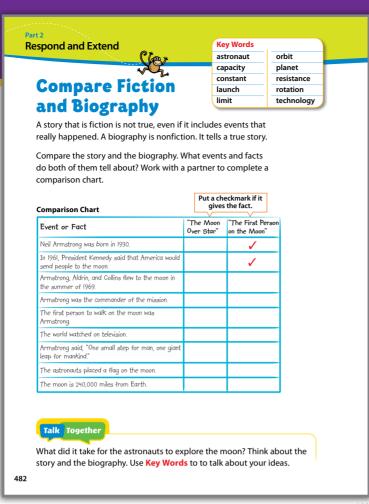
If students have difficulty, explain: A biography is considered nonfiction. It usually focuses on the most important events in a person's life. These events really did happen and are facts. Then ask: What is fiction? (It is a story that is made up.) Can fiction include facts? (Yes.) How do you know that a story detail is a fact? (if it can be proven) Read the first sentence on Anthology page 464. Ask: Is Mae really a launch controller? (No, this is fiction.) Point to Mae's statement about the rocket moving 25,000 miles an hour. Explain: You could check to see if this is a fact. Have students locate another fact on page 465. (In May 1961, Kennedy said America would send people to the moon within 10 years.)

and Phrases

Words

and Conventions Determine Meanings of Words

Acquire and Use Domain-Specific



Anthology page 482

Academic Talk

3 Talk Together Anthology page 482

Review "The Moon Over Star" and "The First Man on the Moon." Have groups use a **Fishbowl** to discuss what it took for the astronauts to explore the moon.

- Part of each group sits in a close circle facing inward. The other part of the group sits in a large circle around them.
- Students in the inner circle discuss astronauts exploring the moon, while those in the outside circle listen to evaluate what is being discussed.
- Groups reverse positions, with the new inner circle adding information relevant to the topic and the new outside circle evaluating these additions.

For **Fishbowl**, see page BP45.

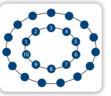


Fluency

Practice Phrasing As students reread the biography aloud, circulate and listen for correct phrasing.

Best Practices

Model Academic Language If student discussions about exploring the moon reflect too much informal talk, model an academic conversation with or between two students. Then have students echo the model to role-play academic discussions in small groups.



TECHNOLOGY

Fishbowl



NGReach.com Practice Master PM7.26

Review and Compare

Historical Fiction and Biography

Differentiate

EL English Learners

ISSUE Students mix up the meanings of certain prepositions, such as on and in.

STRATEGY Have students draw a simple sketch of a house. Call out the prepositional phrases in the house and on the house, and have students show the meanings by adding an "X" to the appropriate spot on the sketch.

BL Below Level

ISSUE Students do not understand the grammatical concept of prepositions.

STRATEGY Write a list of prepositions by type (time, direction, location, or details) for students. Have partners work together to think of a phrase or sentence using each one.



Grammar Focus

Prepositional Phrases Anthology page 483

Project **Student eEdition** page 483. Have volunteers read aloud the introduction and review the chart.

Then display eVisual 7.34 and read aloud the passage, pausing to identify the first prepositional phrase and its purpose: The prepositional phrase is "On our last day." Its purpose is to show time. Have students identify the remaining prepositional phrases in the passage and explain whether they tell time, direction, location, or details.



Grammar Passage

On our last day in space, we flew toward Earth with a feeling of great happiness. After all that time in flight, we were finally going home. We had explored the solar system from Mars to Neptune, orbiting each planet and discovering new wonders every day. Now it was time to return to our lives back home.

NGReach.com Grammar Passage: eVisual 7.34



5 Read Prepositional Phrases Anthology page 483

Read aloud the directions and the passage from "The Moon Over Star." After students have found the prepositions in the excerpt, have partners find at least five additional prepositional phrases in the selection.

See **Differentiate**

6 Write Prepositional Phrases Anthology page 483

Read aloud the directions and have students write independently. Provide support as necessary. Assign **Practice Master PM7.27**.

Check & Reteach

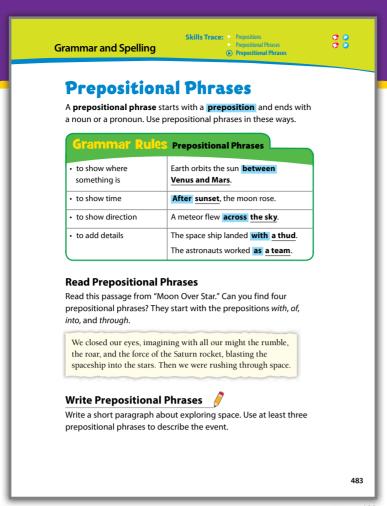
OBJECTIVE: Grammar: Use Prepositional Phrases

As partners look through "The Moon Over Star," check that they can identify prepositional phrases.

If they have difficulty, call attention to the first paragraph and ask:

- Which phrase tells you the year? (in 1969)
- Which two phrases tell you where the narrator is? (in the town, of Star)
- Which phrase tells you where the astronauts would land? (on the moon)
- Which phrase tells you where the narrator would like to go one day? (to the moon)

Write the responses and underline the prepositional phrases.



Anthology page 483

Writing

Write to Reinforce Grammar

Have students return to "The Moon Over Star" and find their favorite passage. Have them add two or more sentences of their own to the passage.

- Student writing should include at least two prepositional phrases.
- Have them circle the phrases and underline the prepositions.
- Have them add marginal notes to identify what each prepositional phrase tells: location, time, direction, or detail.

Circulate to assess student work. Then have students add their sentences to their Weekly Writing folders.



WRAP-UP Have students form small groups to briefly discuss whether they would like to participate in a mission to Mars with NASA. Remind them to support their ideas with details.

Daily Language Arts

Daily Spelling and Word Work 🗹 Practice page T477I

Daily Grammar 🌠

Point out the prepositional phrases to Earth and of Apollo 11 in the captions on **Anthology** page 481. Then use page T477n to teach prepositional phrases.

Daily Writing Skills 🗹

Point out that although "The Moon Over Star" is written in first-person point of view, the narrator still uses third-person pronouns such as he, she, and they to talk about other people. Use page T477p to practice the narrative point of view.

Pay 4 Read and Comprehend Firsthand and Secondhand Accounts

OBJECTIVES

Thematic Connection: Exploring Space

Compare and Contrast Accounts

Use Roots to Determine Word Meanings

PROGRAM RESOURCES

PRINT & TECHNOLOGY

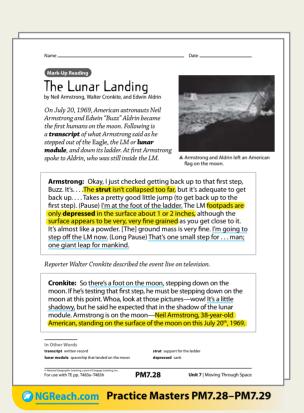
Mark-Up Reading: Practice Masters PM7.28-PM7.29

TECHNOLOGY ONLY

Mark-Up Model 7.2 or Model 7.2 PDF
Vocabulary Strategy Practice: eVisual 7.38

MATERIALS

yellow highlighters and blue markers • timer



COMMON CORE STANDARDS

Reading

Compare Firsthand and Secondhand CC.4.Rinf.6

Accounts

Apply Word Analysis Skills CC.4.Rfou.3
Use Morphology to Read CC.4.Rfou.3.a

Multisyllabic Words

Read with Fluency to Support CC.4.Rfou.4

Comprehension **Writing**

Draw Evidence from Texts

CC.4.W.9

Language and Vocabulary
Determine Meanings of Words

and Phrases

CC.4.L.4



WARM-UP

Have students imagine that they just watched a great soccer game. Ask: *How will a newspaper story about the game compare with a summary from a player?*

Comprehension

① Compare and Contrast Accounts

Explain that students will read two people's accounts of the first time humans landed on the moon. Define: *An account is a report of an event*. Explain that students will compare and contrast how two people report on the same event.

SCREEN 1

- Display Mark-Up Model 7.2 and read aloud the introduction on Practice Master PM7.28. Then read aloud Armstrong's account as students follow along using Practice Master PM7.28. Read aloud the definition of firsthand account. Explain: You know from the introduction that Neil Armstrong was present during the event. Now you will learn other ways to identify a firsthand account.
- 2 Have volunteers follow the instructions and click the Actions and Information buttons. Have students mark up **Practice Master PM7.28**. Elaborate: Firsthand narrators tell what they see, hear, and do during the event and provide information that was important to them. Model identifying the type: The words we underlined and information we highlighted show that Armstrong was present during the event. This shows that his is a firsthand account. Click the arrow to go to the next screen.

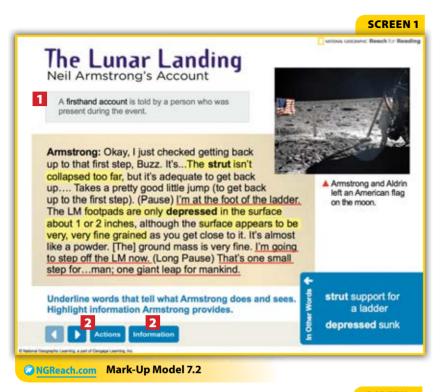
SCREEN 2

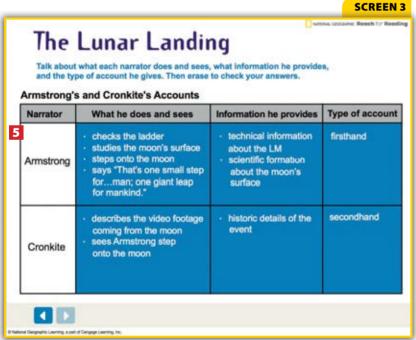
- Read aloud the introduction to Walter Cronkite's account on **Practice Master PM7.28**. Read aloud Cronkite's account and the definition of secondhand account. Elaborate: Secondhand narrators tell what they see and/or hear about what others say and do during the event. They provide information that is important to someone not present during the event.
- Have volunteers follow the instructions and click the Actions and Information buttons. Have students mark up **Practice Master PM7.28**. Ask: How do the words we underlined and highlighted show that this is a secondhand account? (They show that Cronkite was not present during the event.) Click on the arrow to go on.

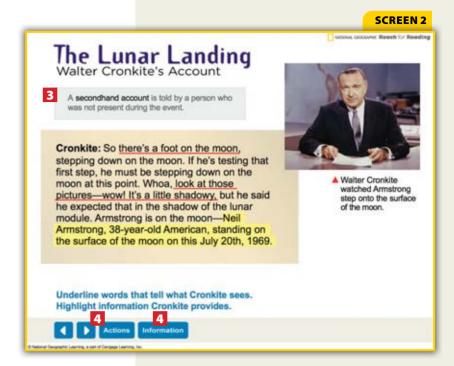
SCREEN 3

Guide students to follow the instructions. On the back of **Practice Master PM7.28**, have students copy and complete the chart.

Have students mark up the rest of **Practice Masters PM7.28–PM7.29**. To enrich the lesson, have students view the video of Cronkite's broadcast; go to Resources > Unit 7 > Learning Stations > Week 4 > Man on the Moon.







Fluency 🗹

Model and Practice Phrasing Explain: Instead of reading word by word, fluent readers group words into phrases that present ideas. Discuss cues in the text that indicate pauses, such as commas and end punctuation. Model reading the first paragraph from Practice Master PM7.28. Have students mark where you pause on their Practice Master PM7.28 pages, and then have them read the same lines, marking where they pause.

Check & Reteach

OBJECTIVE: Compare and Contrast Accounts

Look at students' marked-up **Practice Masters PM7.28–PM7.29** to check if they correctly identify what each narrator says and does and provides for information.

If students have difficulty identifying the details, guide with questions, such as: What did Armstrong say about the lunar module? (Possible response: that the ladder didn't extend completely) What did he say about the surface of the moon? (Possible response: that it was like powder)

Read and Comprehend

Firsthand and Secondhand Accounts

Daily Language Arts

Daily Spelling and Word Work Practice page T477l

Daily Grammar 🌠

Have students find the prepositional phrase on July 20th, 1969 in the first sentence on Practice Master PM7.28. Then use page T477n to review prepositions and prepositional phrases.

Daily Writing Skills 🌠

Briefly discuss the points of view of Aldrin and Cronkite's accounts. Use page T477p to review how to maintain point of view.

Power Writing

Have students write as much as they can as well as they can in one minute about the solar system.

For Writing Routine 1, see page BP47.

Vocabulary Practice



Remind students that they have learned that many English words have Greek, Latin, and Old English roots, and that understanding these roots can help them understand the meanings of unfamiliar words. Then display eVisual 7.38.



Vocabulary Strategy Practice

A flat landscape of rocks and craters stretched in all directions. Everything was gray or white. The shadows and the sky above were as black as the blackest velvet I had ever seen. I exclaimed: "Magnificent desolation."

Word	Root	English Meaning
crater	Greek, <i>krater</i> , "bowl"	a sunken area in the ground that is shaped like a bowl
direction	Latin, <i>regere</i> , "to guide"	place toward which one's eyes move
exclaim	Latin, clamare, "to call"	call out suddenly and loudly
magnificent	Latin, magnus, "great"	great or awesome
desolation	Latin, solus, "alone"	loneliness or emptiness

NGReach.com Vocabulary Strategy: eVisual 7.38



INTERACTIVE WHITEBOARD TIP: Have students circle the root in each English word

Read aloud the passage and explain that it comes from astronaut Buzz Aldrin's account of the moon landing. Model the thinking in defining crater: The root of the English word crater comes from the Greek word krater, which means "bowl." The English word crater probably means "something shaped like a bowl." The rest of the sentence mentions a landscape. This tells me that, in this sentence, craters means bowl-shaped places such as the pits on the surface of the moon.

Then have students recreate the table and use the meaning of a Greek or Latin root to help them define each underlined English word in the passage.

Check & Reteach

OBJECTIVE: Use Roots to Determine Word Meanings **I**

Review students' tables to check if they use roots and contexts to correctly determine the meanings of the English words.

If students have difficulty, model with direction. The root of the English word direction comes from the Latin regere, which means "to guide." The rest of the sentence mentions a landscape. This tells me that, in this sentence, directions means "what a landscape guides my eyes toward."

Writing

3 Write About Accounts

Introduce the activity: Now write a paragraph that compares firsthand and secondhand accounts of the Apollo XI moon landing. Model the process.

Think Aloud	Write
First, I'll explain how the accounts are similar.	Both Armstrong and Cronkite describe how amazing the <i>Apollo XI</i> moon landing is. Armstrong says it's a giant leap for mankind, and Cronkite uses words like <i>wow</i> .
Now, I'll explain how Armstrong's account is different.	Armstrong focuses on the way the moon looks. He says the surface looks like powder.
Then, I'll explain how Cronkite's account is different.	Cronkite focuses on how historic the moon landing is. He gives details about Armstrong and the date of the landing.

For **Writing Routine 2**, see page BP48.

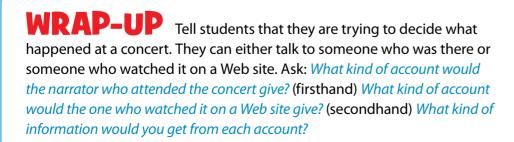
See **Differentiate**

Academic Talk

4 Discuss Generalizations

Introduce the activity: *Now you will make generalizations based on people's experiences of the moon landing*. Have students recall what they learned about making generalizations on **Anthology** page 458.

Model: Walter Cronkite expressed amazement with words such as "wow!" To make a generalization, I fit this idea with what I already know about how people respond to big events. My generalization is that other people watching the landing were amazed, too. Have students review **Practice Masters PM7.28–PM7.29** for details.



Differentiate

BL Below Level

ISSUE Students lack skill at expressing comparisons.

STRATEGY Have partners ask and answer questions, such as:

- What did Armstrong (or Aldrin) and Cronkite both describe?
- What did only Armstrong (or Aldrin) describe?
- What did only Cronkite describe?

AL Above Level

ISSUE Students satisfy the minimum requirement for the assignment.

STRATEGY Challenge students to a contest to see who can write about the most details in their comparisons.

Review and Compare Realistic Fiction, Biography, and Firsthand and Secondhand Accounts

OBJECTIVES

Thematic Connection: Exploring Space Use Roots to Determine Word Meanings

Compare and Contrast Accounts

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Unit Concept Map: Practice Master PM7.1 Mark-up Reading: Practice Masters PM7.28-PM7.29

TECHNOLOGY ONLY

Vocabulary Strategy Practice: eVisual 7.39 Comparison Chart: eVisual 7.40

MATERIALS

green and yellow markers • timer

Power Writing

Have students write as much as they can as well as they can in one minute about the word news.

For Writing Routine 1, see page BP47.

WARM-UP

Remind students of the Greek root astro, meaning "star." Display the sentence "Astronauts are experts in astronomy." Ask: In this sentence, which two words contain this root? (astronaut and astronomy)

Vocabulary Practice



Remind students that they have learned how to use Latin, Greek, and Old English roots to identify the meanings of English words. Display eVisual 7.39.



Vocabulary Strategy Practice

I don't like being the center of attention because I prefer solitude. So I was very nervous about giving a speech about space travel at the science fair. I was surprised at how loud the microphone made my voice. It magnified my voice to reach everyone in the hall! At the end of my speech I heard a great clamor of applause. What an incredible surprise! I was relieved that the speech went so well.

Root	Meaning	Origin
clamare	to call	Latin
cred	believe	Latin
magnus	great	Latin
phon	sound	Greek
solus	alone	Latin
wel	pleasure	Old English

NGReach.com Vocabulary Strategy: eVisual 7.39



Read the passage aloud. Have partners use the meaning of the root and context to determine the meaning of underlined words. Model: The root of solitude is solus, which means "alone" in Latin. The other words in the sentence contrast solitude with being the center of attention, so solitude means "time spent alone."

COMMON CORE STANDARDS

Reading

Compare Firsthand and CC.4.Rinf.6 Secondhand Accounts **Apply Word Analysis Skills** CC.4.Rfou.3 Use Morphology to Read CC.4.Rfou.3.a Multisyllabic Words

Writing

CC.4.W.9.b Apply Grade 4 Reading Standards **Speaking and Listening** Come to Discussions Prepared and CC.4.SI.1.a Draw on Preparation and

Language and Vocabulary

CC.4.L.4 Determine Meanings of Words and Phrases

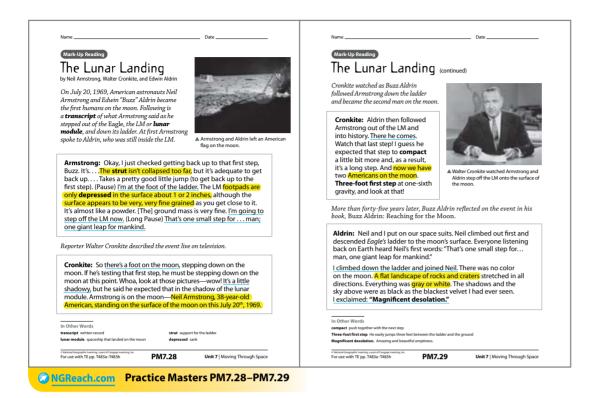
Information to Explore Ideas

T483e Unit 7

Check & Reteach

OBJECTIVE: Use Roots to Determine Word Meanings **[**

Listen to students to see if they correctly use roots and context to define underlined words. If students have difficulty, support them with questions, such as: What is the root in the word? What does the root mean? What clue does the context give? What does the word mean?



Review and Integrate Ideas

2 Identify Accounts

Explain that students will identify firsthand and secondhand accounts of an event. Display these steps to identify an account:

- 1. Identify the narrator, using labels, such as astronaut or news reporter.
- 2. Identify what the narrator sees, hears, and does.
- 3. Identify information the narrator provides.
- 4. Explain how details in steps 1 through 3 show whether the account is firsthand or secondhand.

Model the process for the account in "The Moon Over Star."

- 1. The narrator is a young girl named Mae at her home in the town of Star.
- 2. Mae describes what she saw and heard during the television coverage of the moon landing.
- 3. Mae describes the words on the television screen and in Cronkite's report.
- **4.** Mae's account is a secondhand account. She was not present on the moon; she watched the event on television.

Have students use the steps to identify the types of accounts on **Practice Masters PM7.28–PM7.29**.

Review and Compare

Realistic Fiction, Biography, and Firsthand and Secondhand Accounts

Daily Language Arts

Daily Spelling and Word Work Test page T477k

Daily Grammar 🌠

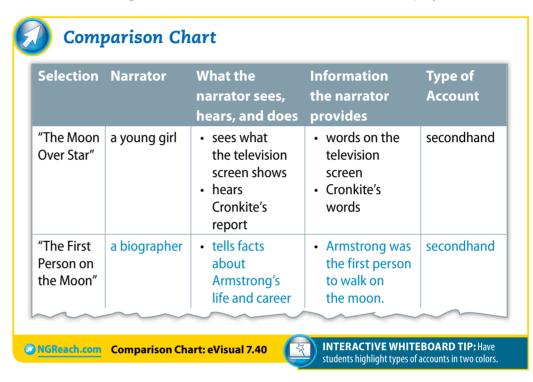
Have students identify the preposition *down* in the first sentence of Cronkite's account on **Practice Master PM7.28**. Then use page T477n to review prepositions and prepositional phrases.

Daily Writing Skills 🌠

Use page T477p to review and assess students' understanding of point of view.

3 Compare and Contrast Accounts

Explain to students that they will compare the details about the first moon landing presented in "The Moon Over Star," "The First Person on the Moon," and "The Lunar Landing" on **Practice Masters PM7.28–PM7.29**. Display **eVisual 7.40**.



Display the steps to identify an account from page T483f and use them to model making entries for "The Moon Over Star." Then have students expand the chart and complete it for all three selections. Facilitate a discussion of similarities and differences among the firsthand and secondhand accounts of the same event.

Differentiate

SN Special Needs

ISSUE Students are unable to focus on a structure for the assignment.

STRATEGY Provide sentence frames to focus students:

- Armstrong looks down and says the moon's surface looks like ______.
- Armstrong's account is ______.
- Cronkite tells what he sees _______
- Cronkite's account is _____.

BL Below Level

ISSUE Students have difficulty comparing accounts.

STRATEGY Provide an outline based on the steps to identify an account:

- I. Identity of each narrator
- II. What each narrator sees, hears, and does
- III. Information each narrator provides
- IV. Details that show whether each account is firsthand or secondhand

Check & Reteach

OBJECTIVE: Compare and Contrast Accounts

Review students' charts to check if they are able to identify the type of account.

If students struggle, model identifying an account with "The First Person on the Moon."

Writing

4 Write About Point of View

Introduce the activity: Now you will write a paragraph that compares the firsthand and secondhand accounts of the moon landing. Explain how the steps to identify an account helped you identify each type of account. Allow time for each student to select a firsthand and a secondhand account and write about them. Have volunteers share their comparisons. Students add them to Weekly Writing folders.

See **Differentiate**

Academic Talk

5 Relate Readings to the Big Question

Have students recall the unit's Big Question: What does it take to explore space? Think about "The Moon Over Star," "The First Person on the Moon," "The Lunar Landing," and a **Small Group Reading** book you have read. How did those selections show what it takes to explore space?

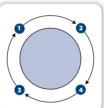
Model a response to the question for "The Moon Over Star." At first, Mae's grandfather doesn't understand why the moon landing is important.

Because Mae dreams about traveling to the moon, she wonders what her grandfather's dreams were like when he was young. Maybe having big dreams when you're young is part of what it takes to explore space.



Use a **Roundtable** to have students continue discussion about how the readings relate to the Big Question.

- Form groups of four. Seat each group around a table.
- Ask each group a question with many possible answers.
 Possibilities:
 - How might a person become interested in studying space?
 - What skills does a space explorer need?
 - Why does exploring space interest so many people?
- Is it important to study space? Why or why not?
 Encourage each student around each table to answer the guest.



Roundtable

 Encourage each student around each table to answer the question in a different way.



HERE MEN FROM THE PLANET EARTH FIRST SET FOOT UPON THE MOON JULY 1969, A.D. WE CAME IN PEACE FOR ALL MANKIND

Best Practices

Encourage Elaboration As students talk, encourage them to explain themselves fully. Ask:

- What makes you say that?
- Can you give an example from one of the readings of what you mean?
- How do your ideas relate to someone else's ideas?

Week 4 Writing Project

OBJECTIVE

Thematic Connection: Exploring Space

Write a Personal Narrative: Voice

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Writing Rubric: Assessment Master 7.41

TECHNOLOGY ONLY

Voice: eVisual 7.32

SUGGESTED PACING

DAY 1 Study a Model

DAY 2 Prewrite

DAY 3

DAY 4 Revise/Edit and Proofread

Publish and Present DAY 5

Study a Model

Read the Personal Narrative Anthology page 484

Read aloud the prompt on **Student eEdition page 484**. Have students read the model silently or in pairs. Then have volunteers read aloud the notes next to the student sample and identify the first lines that capture the reader's interest and the beginning, middle, and ending of the narrative.

Review the Trait: Voice

Display and read aloud eVisual 7.32. Then have students find examples of personal voice in the model. Ask: Which sentences or phrases sound personal, like the way a young writer might think, talk, and feel? Underline the words and phrases students identify.



Writing Trait: Voice

Writing with effective voice

- sounds natural when read aloud, like the way the writer would talk
- uses realistic dialogue, expressions, idioms, and detail words
- · sticks with one point of view.

NGReach.com Voice: eVisual 7.32



Prewrite

Choose a Topic Anthology page 484

Have students reread the prompt. Ask questions such as: What are some examples of places or situations involving speed? Then unpack the prompt and begin completing a RAFT.

Role: Yourself

Audience: Your teacher and classmates

Form: Personal narrative

Have students read step 1 on **Anthology** page 485. Then have students talk with partners to choose an experience to complete a RAFT.

Gather Information Anthology page 485

Ask a volunteer to read step 2. Then have students brainstorm who, what, when, where, and why questions about their experiences. Explain that asking questions will help students recall details that will make their narratives more interesting: When writing a personal narrative, tell your reader when the experience occurred, where you were, whom you were with, what was said, what happened, and why you responded the way you did.

Get Organized Anthology page 485

Have a volunteer read step 3 and the sample comparison chart. Ask: If you learned something from your experience, in which column would you write that detail? (right) Have students create a comparison chart or other kind of chart to help them organize their ideas for their narratives.

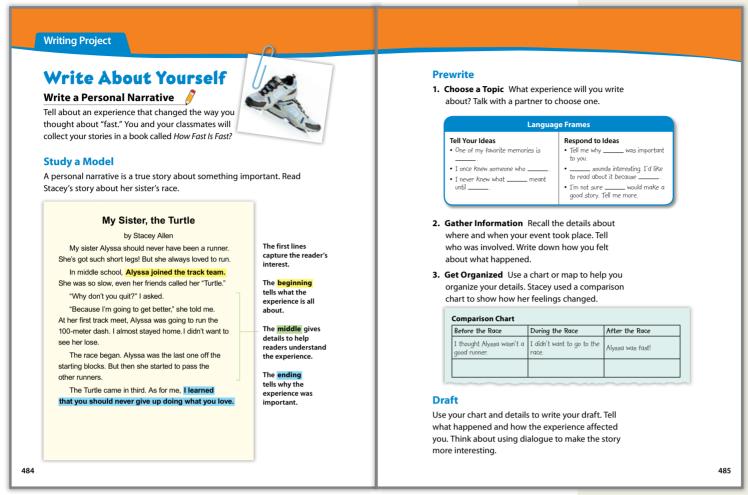
COMMON CORE STANDARDS

Writing

Write Narratives CC.4.W.3 Plan, Revise, and Edit Writing CC.4.W.5 Write Over Extended Time Frames CC.4.W.10 for Specific Tasks, Purposes, and Audiences

Language and Vocabulary

Demonstrate Command of Grammar CC.4.L.1 **Use Prepositional Phrases** CC.4.L.1.e Use Knowledge of Conventions CC.4.1.3



Anthology pages 484-485

Draft

Write Ideas Anthology page 485

Invite a volunteer to read the instructions aloud.

Explain how to turn a comparison chart into a personal narrative: You can decide the best way to organize your narrative. For example, you could write your narrative in three parts: Beginning, Middle, Ending, following the Before, During, and After order used in your comparison chart. Or, you might find it more interesting to start out with an exciting sentence telling the end result or what you realized after the experience. Then, you could tell the events in order.

Remind students to check their drafts to make sure they have included all the information from their charts.

Suggest that students choose words that express their natural voice—words that sound the way they think and talk—as they draft: Your writing should be clear and easy to understand, but it is okay to use some slang and other personal expressions to make your narrative sound like your own personal way of speaking.

See **Differentiate**

Differentiate

EL English Learners

ISSUE Students lack the vocabulary to describe their experiences in words.

STRATEGY Allow students to write their narratives in their first language and then use an online translator to translate them into English. Have students read their English versions aloud with you. Then have students create a final draft of their narratives in English, illustrate them, and display them side-by-side with the native-language version of their narratives in the classroom.

Week 4 Writing Project



Daily Language Arts

Daily Spelling and Word Work 🗹

Practice pages T477k-T477l

Daily Grammar

Use pages T477m–T477n to teach prepositions that show location, time, and direction. Review **Anthology** page 483 with students, and have them find prepositional phrases in "The Moon Over Star" on **Anthology** pages 461–474.

Daily Writing Skills 🌠

Use pages T4770–T477p to review the Daily Writing Skill with students. Then discuss the point of view used in "The Moon Over Star" on **Anthology** pages 461–474 (first person).

Differentiate

BI Below Level

ISSUE Students are unable to revise or edit their narratives.

STRATEGY Hold individual conferences with students. Read students' narratives aloud with them and discuss needed changes and ideas for improvements. As changes are made, read the revised narratives aloud again, noting the improvements as you read.

AL Above Level

ISSUE Students satisfy only the minimum requirements for the assignment (writing basic factual accounts of their experiences without interesting details or engaging voice).

STRATEGY Challenge students to compete to see who can include the most details, descriptions, dialogue, and expressions in their narratives.

Revise

Read, Retell, Respond Anthology page 486

Read aloud step 1 on **Anthology** page 486. Have partners take turns reading their narratives to each other and then retelling what they have heard. Then have them hold peer conferences to aid in revising. Model how to offer feedback using the sample personal narrative: *The dialogue sounds natural, but I would add more details and personal expressions to give the writing character and to add more of the writer's voice to the narrative.*

Make Changes Anthology page 486

Guide students through the instructions and sample changes on **Anthology** page 486. Ask volunteers to explain why each change improves the narrative: *How does replacing* Could you please answer some questions? *with* "Why don't you quit?" I asked *make the narrative more interesting and natural sounding?* (Possible responses: It gives the writing a natural voice; it makes the writing sound more like the way people talk in real life.)

Write the following line and ask students how it could be revised to make it sound like the natural voice of a person their age:

I greeted her and asked her if she had enjoyed the concert.

Ask: Does this sentence sound the way you've heard other people your age talk? Does it sound like something you would say when telling a friend about something that happened to you? How would you rewrite this sentence to make it sound like your own voice? (Possible responses: "Hey, what's up? Did you like the show?" "Hi! What did you think of the concert? Was it awesome?")

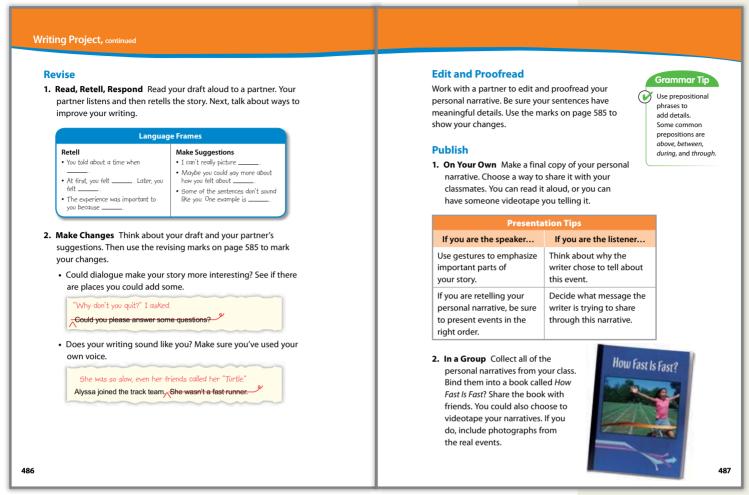
Have students use Revising Marks to improve their drafts. Remind them to focus on using their own voice in their writing and to check that their narratives maintain a first-person point of view throughout.

See **Differentiate**

Edit and Proofread

Check the Narrative Anthology page 487

Read aloud the instructions on page 487. Have students check their grammar and spelling, focusing on maintaining the correct point of view (first person) and correctly using prepositional phrases with *above*, *between*, *during*, and *through*. Point out the Grammar Tip on the page. Remind students to check the spelling of difficult words and to make necessary changes to their drafts.



Anthology pages 486–487

Publish

On Your Own Anthology page 487

Have students write final drafts of their personal narratives. Instruct students to publish their narratives as they choose, such as by making a poster display with their text and illustrations, or by writing the narrative as a letter to a friend or family member. Students may also wish to create illustrations or bring in photographs to accompany their narratives.

If students would like to read their narratives to the class, have them review the Presentation Tips on **Anthology** page 487.

Use the **Writing Rubric** to assess each student's personal narrative.

In a Group Anthology page 487

Publish students' writing as a group by printing their narratives on same-sized pages to bind into a class book or magazine. Encourage students to create illustrations or bring in photographs to accompany their narratives. Display the class book or magazine in a location where students can read one another's narratives.



Week 4 Assessment & Reteaching

= TESTED

Assess

OBJECTIVES

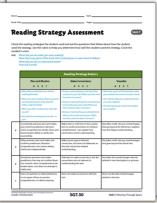
Reading

Explain Text Structure: Compare and Contrast; Draw Conclusions to Comprehend Text; Explain Concepts in Text; Explain Author's Uses of Reasons and Evidence; Comprehend Plot; Form Generalizations; Understand Points of View; Compare and Contrast Accounts

ASSESSMENTS







Reading Comprehension Unit Test

A7.22-A7.29

Reading Strategy Assessment SG7.30–SG7.31

Fluency

- Phrasing
- Accuracy and Rate







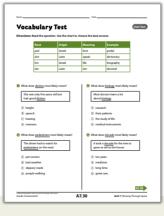
Oral Reading Assessment A7.1–A7.3

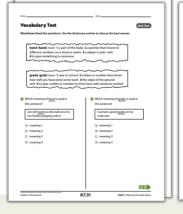
A/.I-A/.3

Use these passages throughout Unit 7. Work with Below Level students this week.

Vocabulary and Spelling

- **Use Domain-Specific Words**
- **☑** Use Academic Words
- ✓ Use Context/Roots to Determine Word Meanings
- Spell Multisyllabic Words with VCCV, VCCCV Patterns
- ✓ Use Commonly Misspelled Words Correctly







Vocabulary Unit Test

A7.30-A7.32

Spelling Pretest/ Spelling Test T477k

Grammar and Writing

- **☑** Use Adverbs and Adjectives
- Use Comparison Adverbs
- Use Relative Adverbs
- Use Prepositions
- **✓** Use Prepositional Phrases
- Maintain Point of View







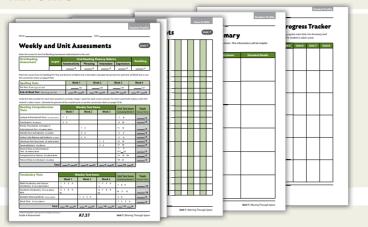
Writing, Revising, and Editing Unit Test A7.33–A7.36

Writing Rubric A7.41





REPORTS



Reteach and Practice

RESOURCES AND ROUTINES

Reading

RETEACH

Compare Points of View: Reteaching Master RT7.10 Compare and Contrast Accounts: Reteaching Master

Synthesize: Reteaching Master RT7.12

ADDITIONAL PRACTICE

Comprehension Coach ONGReach.com

PRINT & ONLINE

Report Forms

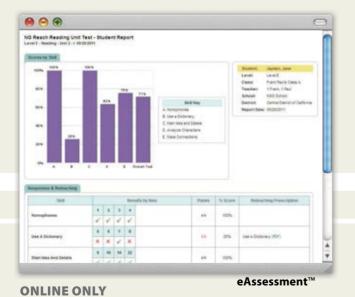
Student Profile: Weekly and Unit Assessments A7.37-A7.38 Class Profile: Weekly and Unit Assessments A7.39 **Student Profile:** Strengths and Needs A7.40 Student Profile: Oral Reading Progress Tracker A1.3

Fluency

RETEACH

Fluency Routines, page BP33

ADDITIONAL PRACTICE



Automated Reports

Student Profile: Weekly and Unit Tests

Class Profile: Weekly and Unit Tests

Standards Summary Report

Vocabulary and Spelling

RETEACH

Vocabulary Routine 6, page BP40 Spelling and Word Work Routine, page BP52

ADDITIONAL PRACTICE

Daily Spelling Practice, pages T477k-T477l

Grammar and Writing

RETEACH

Adverbs: Anthology Handbook, page 609 **Prepositions: Anthology Handbook**, page 610 Writing: Reteaching Writing Routine, page BP51 Writing Trait: Voice: Reteaching Master RT7.13

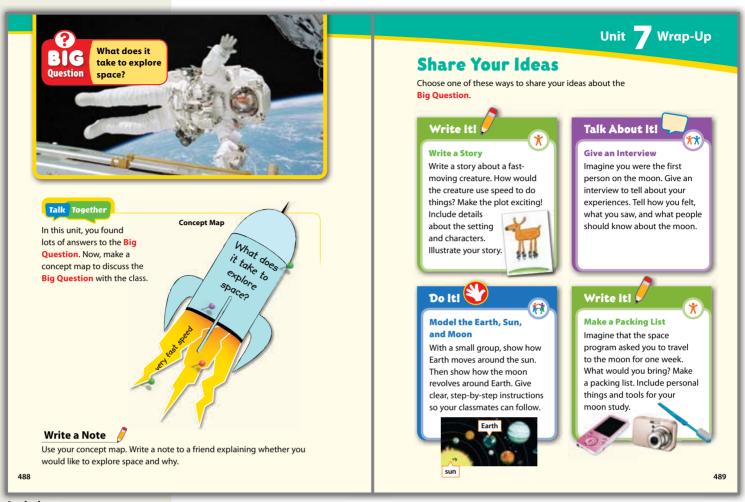
ADDITIONAL PRACTICE

More Grammar Practice PM7.31

Daily Writing Skills Practice, pages T477o-T477p

See Weeks 1–3 for additional practice resources.

Unit 7 Wrap-Up



Anthology pages 488–489

OBJECTIVES

Thematic Connection: Exploring Space

Review Content

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Unit Concept Map: Practice Master PM7.1

COMMON CORE STANDARDS

Writing

Write Over Shorter Time for Specific
Tasks and Purposes CC.4.W.10

Speaking and Listening

Draw on Preparation to Explore Ideas CC.4.SL.1.a

Academic Talk

1 Talk Together Anthology page 488

Display the Big Question. Read aloud the first paragraph on page 488. Have students revisit their unit concept maps to remind them of their answers to the Big Question. Encourage them to think about their class discussions, the selections in the unit, and the books they read during Small Group Reading. Encourage students to ask each other questions to clarify ideas and to make generalizations about common ideas.

Writing

2 Write a Note Anthology page 488

Read aloud the instructions. Explain that their notes will express their personal opinion, which should be supported with reasons. Have students look back at "Building for Space Travel" on pages 447–451 as they prepare to write their note to get ideas and facts to support their opinions. Remind them to address their note to a friend and to sign their name.

Unit Projects

3 Share Your Ideas Anthology page 489

Students who have chosen the Talk About It project work with a partner, while students working on the Do It Project work in small groups. Have the other students work independently at their desks.

Write It!



Plan

Have students brainstorm a list of events for their fast-moving creature story and put the events in sequence using a time line. If necessary, draw a time line on the board and remind students how to make and use one. Discuss how the time increments on a time line can represent hours, days, weeks, months, or years, depending on the time frame of their story.

Write a Story

Have students follow the instructions to write their stories. Encourage them to include descriptive details about the characters and the setting which they can use in illustrations. Ask volunteers to share their stories with the class.

Write Narratives, Using Event Sequences Write Over Shorter Time for Specific Tasks and Purposes

CC.4.W.3 CC.4.W.10

Talk About It!



Ask student pairs to look at the pictures of astronauts and the moon on pages 474 and 479–481. If time allows, have them research other pictures. Allow students to decide who will be the interviewer and who will be the interviewee. Encourage students to use what they have learned as they prepare questions and answers for the interview.

Give an Interview

Students pairs should act out an interview scenario. Remind them that questions and answers should relate to the interviewee's feelings, thoughts, and observations about the moon. Student pairs may wish to perform their interview for the class.

Discuss Topics, Building on Others' Ideas and Expressing Ideas Clearly

CC.4.SL.1

Pose and Respond to Questions

CC.4.SL.1.c

Do It!

art supplies such as colored markers, modeling clay, cardboard, chenille

wire, foam balls of various sizes, tape, glue, etc. **Plan**

Have students work in small groups to use books and online resources to research the movement of the Earth, sun, and moon. Encourage groups to brainstorm ways to create a threedimensional model to demonstrate this movement.

Model the Earth, Sun, and Moon

Allow students time to create their models with a variety of materials. Have groups demonstrate their model to the class and provide a step-by-step explanation about how their model shows the rotation of Earth, the movement of Earth around the sun, and the movement of the moon around Earth.

Report on a Topic

CC.4.SL.4

Write It!





Plan

Have students review "Building for Space Travel" on pages 447–451 to get ideas about things astronauts need in space. Then lead a class brainstorming session about what a young space traveler would need to pack for a one-week journey to the moon. Ask:

What kinds of things would be the most important to bring? What could you bring to make yourself more comfortable? What might be fun to take with you to the moon?

Make a Packing List

Have students follow the instructions to create their packing lists. Remind them to include personal items and tools they might need for their study of the moon.

Report on a Topic

CC.4.SL.4





Unit 7 Reflection

Successful Teaching Moments	Adjustments for Next Year
Additional Notes or Resources	
Additional Notes of Resources	



Contents at a Glance

	Practice Masters				
	Family Newsletter 7: English and Spanish				
Week 1	Day 1: Unit Concept Map Comparison Chart Day 3: Grammar Game Day 4: Grammar and Writing Day 5: Test-Taking Strategy Practice Comparison Chart Fluency Practice Reteach: Grammar Practice	PM7.1 PM7.2 PM7.3 PM7.4 PM7.5 PM7.6 PM7.7			
Week 2	Day 1: Grammar Game. Day 2: Grammar Game. Day 3: Comparison Chart Grammar Practice Day 4: Mark-Up Reading. Mark-Up Reading. Grammar and Writing Reteach: Grammar Practice	PM7.9 PM7.10 PM7.11 PM7.12 PM7.13 PM7.14 PM7.15 PM7.16			
Week 3	Day 1: Plot Diagram Day 3: Grammar Game Day 4: Grammar and Writing Day 5: Test-Taking Strategy Practice Plot Diagram Fluency Practice Reteach: Grammar Practice	PM7.17 PM7.18 PM7.19 PM7.20 PM7.21 PM7.22 PM7.23			
Week 4	Day 1: Grammar Game. Day 2: Grammar Game. Day 3: Comparison Chart Grammar Practice Day 4: Mark-Up Reading. Mark-Up Reading. Grammar and Writing Reteach: Grammar Practice	PM7.24 PM7.25 PM7.26 PM7.27 PM7.28 PM7.29 PM7.30 PM7.31			



Level E | Unit 7

Dear Family Member,

"What does it take to explore space?" That is the big question we are asking in this unit. To answer it, we are reading, writing, and talking about solving problems in order to study outer space. Be a part of our exploration! With your student, read the New Words on the next page. Then follow these directions.

Directions:

- **1.** Talk together about what you can see in the clear night sky. Share what you know. If possible, observe the night sky together. Try to use some of the New Words in your discussion.
- **2.** In the box below, draw a picture of what you see in the clear night sky where you live. Then write about it on the lines at right.
- **3.** Remind your student to bring the completed drawing and notes to class.

What We're Reading

"What's Faster Than a Speeding Cheetah?"

by Robert E. Wells

The author of this article profiles fast things.

"Building for Space Travel" by Anastasia Suen

This report describes a space station designed by Explorer Constance Adams for future astronauts on their way to Mars.

"The Moon Over Star" by Dianna Hutts Aston

In this story, a girl dreams of becoming an astronaut.

"The First Person on the Moon"

This biography highlights Neil Armstrong's greatest achievement.

And more!

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Family Newsletter 7 | English



New Words

Weeks 1 and 2

accelerate solve measure

motion speed average

distance rate

height scale

Weeks 3 and 4

limit rotation astronaut

capacity orbit technology

planet constant

launch resistance

Learn and play with words. MGReach.com

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New Words | English



Nivel E | Unidad 7

Estimado miembro de la familia,

"¿Qué se necesita para explorar el espacio?" Esa es la gran pregunta que estamos explorando en esta unidad. Para responderla, estamos leyendo, escribiendo y hablando acerca de solucionar problemas a fin de estudiar el espacio exterior. ¡Sea parte de nuestra exploración! Con su estudiante, lea las Nuevas Palabras en la siguiente página. Luego siga estas instrucciones.

Instrucciones:

- **1.** Juntos, conversen acerca de lo que pueden ver en el cielo en una noche clara. Compartan lo que saben. Si es posible, observen juntos el cielo en la noche. Intenten usar algunas de las Nuevas Palabras en su conversación.
- **2.** En el recuadro que aparece más abajo, hagan un dibujo de lo que ven en el cielo durante una noche clara, en el lugar donde viven. Luego, escriban acerca de ello en las líneas de la derecha.
- **3.** Recuerde a su estudiante traer las notas y el dibujo completos a clase.

Qué estamos leyendo

"What's Faster Than a Speeding Cheetah?"

por Robert E. Wells

El autor de este artículo reseña cosas rápidas.

"Building for Space Travel" por Anastasia Suen

Este informe describe una estación espacial diseñada por la exploradora Constance Adams, para los futuros astronautas en su paso hacia Marte.

"The Moon Over Star" por Dianna Hutts Aston

En este cuento, una niña sueña con convertirse en astronauta.

"The First Person on the Moon"

Esta biografía resalta el mayor logro alcanzado por Neil Armstrong.

¡Y más!

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Family Newsletter 7 | Spanish



Nuevas Palabras

Semanas 1 y 2

accelerate

acelerar

measure

medida

solve

resolver

average

promedio

motion

movimiento

speed velocidad

distance

distancia

rate velocidad

height

altura

scale

escala

Semanas 3 y 4

astronaut

astronauta

limit

limitar

rotation

rotación

capacity

capacidad

orbit

órbita

technology tecnología

constant

constante

lanzar

launch

planet

planeta

resistance

resistencia

Aprenda y juegue con palabras. NGReach.com

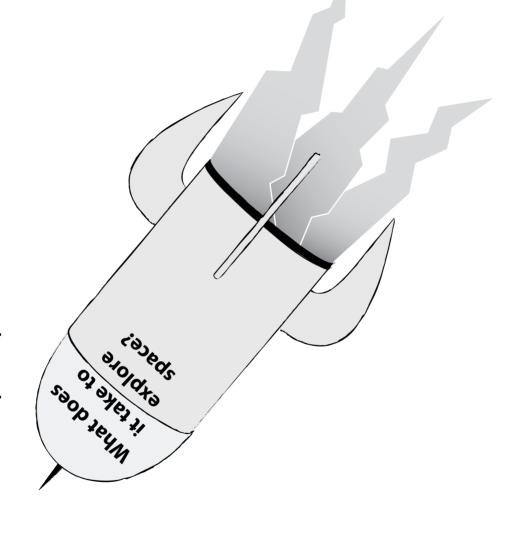
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New Words | Spanish

COPY READY

Moving Through Space

Make a concept map with the answers to the Big Question: What does it take to explore space?



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PM7.1

lame	Date

Comparison Chart

Comparing Sports

Make a comparison chart to compare one of the sports on page 427 with another sport.

Comparison Chart

Sport	Where	Goal	Measure Speed



Use your comparison chart to tell your partner about the two sports.

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For use with TE p. T427a

PM7.2

Grammar: Game

How It's Done!

Adjectives		Adverbs	
swift	tall	rapidly	extremely
slow	speedy	swiftly	fairly
rapid	sluggish	very	really

Choose adjectives and adverbs from the box to complete the sentences. Follow the order shown in parentheses. Use a variety of adjectives and adverbs!

- 1. The rocket ship is ______ . (adverb, adjective)
- 2. That falcon flies ______ . (adverb, adverb)
- **3.** A person can be _______ . (adverb, adjective)
- **4.** Snails are _______ . (adverb, adjective)
- 5. The beam of light travels ______ . (adverb, adverb).
- **6.** Cheetahs are _______. (adverb, adjective)
- **7.** This ostrich is _______ . (adverb, adjective)
- **8.** The meteoroid zooms ______ . (adverb, adverb)

Name	Date

Grammar: Grammar and Writing

Edit and Proofread

Choose the editing and proofreading marks you need to correct the passage. Look for correct usage of:

- adverbs
- adjectives

Editing and Proofreading Marks

^	Add.
タ	Take out.
6	Move to here.
^	Add comma.
\odot	Add period.

Ella stood nervous at the edge of the pool. Every muscle in her body was tensely as she waited for the signal to begin.

"Go!" the coach yelled sudden. She sprang instant into the blue water. Her arms slashed up. They slashed downly. They were like a whirling windmill slicing through the water.

Freestyle was Ella's best stroke, and she was confidently as she sped through the water. The turn was coming up. She swam energetically, got to the wall, and pushed off hardly. She heard the loudly screams of the crowd, but all her concentration was focused on swimming as fast as she could.

The race was near over. She had a few yards to go. Final she slapped her hand on the edge of the pool. A roar rose quick up from the crowd. She had won, she realized excited!

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For use with TE p. T423n

PM7.4

Test-Taking Strategy Practice

Read All Choices

Directions: Read each question about "What's Faster Than a Speeding Cheetah?" Choose the best answer.

Sample

- 1 Which of the following moves the fastest?
 - A jet
 - ® cheetah
 - © falcon
 - rocket
- The speed of light is one of the few speeds that is ______.
 - A slower at high altitudes
 - ® not constant
 - © constant
 - faster in space
- 3 Why do we have trouble measuring the speeds of animals?
 - A They do not come with speedometers.
 - **®** They are faster than the speed of sound.
 - © They are hard to see.
 - D They are faster than the sound of your voice.



Tell a partner how you used the strategy to answer the questions.

|--|

Comparison Chart

"What's Faster Than a Speeding Cheetah?"

Make a comparison chart for "What's Faster Than a Speeding Cheetah?"

Animal or	How it	Fastest	Record
Object	Moves	Speed	
ostrich	runs on two	72 km (45	fastest animal
	legs	mi) per hour	with two legs
cheetah	runs on four	II3 km (70	fastest land
	legs	mi) þer hour	animal
peregrine falcon			
jet plane			



Use your comparison chart to tell a partner how the animals and objects are alike and different.

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For use with TE p. T444a

PM7.6

Fluency Practice

"What's Faster Than a Speeding Cheetah?"

Intonation is the rise and fall in the pitch or tone of your voice as you read aloud. Use this passage to practice reading with proper intonation.

Hold on a minute. There's something much faster than even 10 the fastest meteoroid. It's something you see all the time. 20

Just push the switch on a flashlight. Instantly, a light beam 31 will flash out at the amazing speed of 299,338 kilometers per 42 second (186,000 miles per second). 47

That's thousands of times faster than a meteoroid. At that speed, 58 a beam of light could circle Earth more than seven times in one second. 72

Most scientists believe that nothing can travel through space 81 faster than light. Who would have thought that the fastest traveling 92 thing in the whole universe could come out of something small 103 enough to hold in your hand? 109

From "What's Faster Than a Speeding Cheetah?" pages 440–441.

Intonation		
■ Does not change pit	ch.	3
2	does not match content.	☐ Changes pitch to match all of the content.
Accuracy and Rate F Use the formula to measure a words attempted in one minute	ormulα reader's accuracy and rate whi · = number of errors	le reading aloud. = words correct per minute (wcpm)

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For use with TE p. T445

PM7.7

COPY READY

Grammar: Reteach

The Bicycle Race

Grammar Rules: Adverbs

An **adverb** describes a verb. It can come before or after a verb and tells *how, where, when,* or *how often/how much*.

- Many adverbs end in -ly.
- An adverb can modify an adjective or another adverb.
- Use an adverb instead of an adjective to tell about a verb.
- Never use an adverb after a form of the verb to be.

Miguel pedals his bicycle quickly. (How does he pedal?)

Matt <u>sometimes</u> rests. (How often does he rest?)

Denny bikes <u>very slowly</u>. (How slowly?)

Rosa pedals happily.

Rosa is happy to race.

Read the sentences below. Circle the correct word to complete the sentence.

- **1.** Miguel begins the race (eagerly/eager).
- 2. Rosa races (easy/easily) to the lead.
- **3.** Denny (careful/carefully) steers on the muddy road.
- **4.** All the racers are (fast/fastly).
- 5. But, Rosa waits (patiently/patient) at the finish line.
- **6.** She is (proudly/proud) that she won.
- **7.** Rosa will coach the other racers (very/much) (happy/happily) for the next race.



With a partner, discuss the bike race. Take turns using adverbs to describe the different bike riders.

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For use with TE p. T445d

PM7.8

COPY READY

Grammar: Game

Make a Face!

Draw an oval on a separate sheet of paper. With a partner, take turns drawing a space creature's face by adding one feature, such as eyes or antennae, on the separate paper for each turn. Make your space creature as weird or silly as you like.

Directions:

- 1. With your partner, take turns completing the sentences. Add -er to the adverb in parentheses or use more or less.
- 2. If your partner agrees that your sentence is correct, add one feature to the face. If not, your partner corrects the sentence and adds a feature to the face.
- 3. When the sentences are complete, your Martian will be, too!
- 1. The Martians eat ______ than pigs. (noisily)
- 2. They sleep _____ than bears in winter. (frequently)
- **3.** The creatures on Venus move _____ than snails. (slow)
- **4.** They jump _____ than frogs! (high)
- **5.** Some creatures on Jupiter fly _____ than jets. (fast)
- **6.** Others drift through space ______ than swans. (gracefully)

Grammar: Game

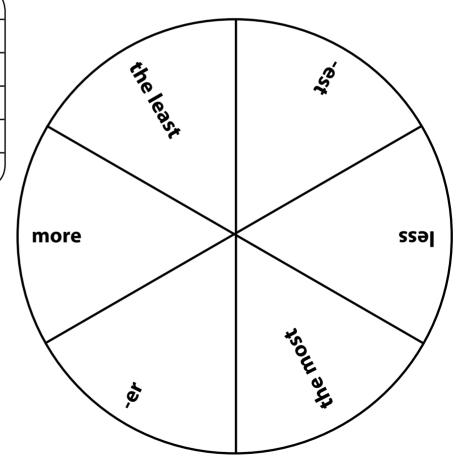
Match and Make Comparisons

- 1. Take turns with your partner. Spin the spinner. Look at the letters or words you landed on.
- 2. Choose an adverb from the box that works with what you landed on. Form a comparison adverb. For example: -est + late = latest.
- 3. Use your comparison adverb in a sentence.
- 4. If your partner agrees that your sentence is correct, score 1 point. If not, your partner takes a turn.
- 5. Continue until all the words in the box have been used correctly to make comparison adverbs. The player with more points at the end is the winner.

bravely
awkwardly
late
politely
quietly
fast

Make a Spinner

- 1. Put a paper clip over the center of the spinner.
- 2. Touch the point of a pencil on the middle of the wheel and through the loop of the paper clip.
- 3. Spin the paper clip to make a spinner.



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For use with TE p. T4451

PM7.10

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Comparison Chart

Compare Fact and Opinion

Compare facts and opinions in the two selections.

	Facts	Opinions
"What's Faster Than a Speeding Cheetah?"		A peregrine falcon is magnificent.
"Building for Space Travel"	Constance Adams helped design TransHAb.	



Take turns with a partner. Ask each other questions about the facts and opinions found in the selections.

Exercising in Zero Gravity

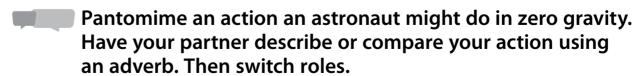
Grammar Rules Adverbs

Use **adverbs** to describe and compare actions.

Describe 1 action	soon	careful ly	
Compare 2 actions	soon <u>er</u>	more careful ly than	less careful ly than
Compare more than 2 actions	soon <u>est</u>	the most careful ly	the least careful ly

Read each sentence. Write the correct form of the adverb on the line.

- **1.** Every day I enter the gym _____ sooner__ than my partner.
- **2.** I walk in _____ than a gymnast. (eagerly)
- **3.** I notice that the equipment is attached _
- **4.** At first, I ran the _____ of all the astronauts. (quickly)
- **5.** If I keep practicing, I may one day run the _____ of all. (fast)
- **6.** Scientists planned TransHab the _____ of any gym. (carefully)



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PM7.12

Name Date	
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.....



Dear Astronaut Holmer: I read that space shuttles have bedrooms. What is it like to sleep on a space shuttle? — Lukshmi Patel, India

Dear Lukshmi,

Sleeping in space felt very strange at first. It felt odd using a sleeping bag tied to the wall! But otherwise we would float around and bump into things. There is still gravity in a spacecraft, but it's a very weak force. Weak gravity means there's no up or down. Once you're used to it, it's fun to sleep in any direction!



Sometimes astronauts sleep in sleeping bags tied to the walls of the spacecraft.

The light of the Sun also makes sleeping a

challenge. We need to sleep eight hours at the end of each work day. However, as the shuttle orbits around Earth, the Sun "rises" every 90 minutes, waking us up too soon. So we wear masks to block out the light while we sleep.

Explanation

Explain how reasons and evidence support the main ideas in the astronaut's answer to Lukshmi:

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PM7.13

lame	Date



Dear Astronaut Jamal Holmer:

We learned that space shuttles have exercise rooms. It has to be hard to exercise without gravity! How do you exercise in space?

— Mr. Fletcher's fourth-grade class from California

Dear Class,

Exercising in space is fun and necessary! Imagine what would happen if you never had to walk anywhere or never had to lift heavy objects. Your muscles would get really weak! Luckily, there are plenty of ways to exercise. On the International Space Station, we might use the exercise bike or special equipment that **simulates** lifting weights to keep our muscles strong. Or we might turn



Astronauts need to exercise often to keep their muscles strong.

somersaults and race from one end of the space station to the other!

In Other Words

simulates gives the feeling of

Explanation

Explain	how reasons	and evid	ence sup	oport the	main ide	ea in tl	ne
astrona	ut's answer t	o Mr. Fleto	cher's cla	ass:			

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PM7.14

Grammar: Grammar and Writing

Edit and Proofread

Choose the Editing and Proofreading Marks you need to correct the passage. Look for correct usage of adverbs with the following.

- -er and -est
- more/less and the most/the least
- special forms

Editing and Proofreading Marks

^	Add.
بو	Take out.
	Move to here.
<i>∧</i>	Add comma.
•	Add period.

faster
Do you ever imagine traveling fastest than a flash to reach Mars? I have been dreaming about that, but last night I dreamed the most vividly about Mars than I had the night before. In my dream, my rocket ship traveled through space quickly than a real spacecraft. It orbited most well but landed the least gentliest of all the rocket ships arriving on Mars that night.

I stood in a strange landscape. A dust storm blew most fiercely than a blizzard. Huge piles of sand rose higher than a house. Suddenly many small rocks were flying toward me. The one moving the less swiftly of all was coming right at my head. I tried to duck, but I moved more slowlier than a spoon in molasses. Fortunately, then I woke up. I was exhausted. I had slept more badly than any night in my life!

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PM7.15

lame		Date	
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Grammar: Reteach

Hiking Up the Mountain

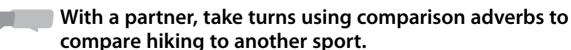
Grammar Rules: Adverbs

To compare <u>two actions</u> , add 'er for many adverbs.	This mountain stands tall <u>er</u> than that one.
Use <i>more</i> or <i>less</i> for adverbs ending in 'ly.	That path winds <u>more</u> steeply than the road.
To compare <u>three or more</u> <u>actions</u> , add <i>'est</i> for many adverbs.	This mountain stands the tall <u>est</u> of all the mountains.
Use the most or the least for adverbs ending in 'ly.	Max hikes <u>the most</u> eagerly of all his friends.
Special forms: well: better, best badly: worse, worst	I hike <u>well</u> . She hikes <u>better</u> than I do. Ana feels <u>badly</u> . Lara feels <u>worse</u> .

Write the correct word to complete the sentence.

1.	Max hikes	than I	hike.	(better,	best)
----	-----------	--------	-------	----------	-------

- 2. I climb _____ than he does. (high, higher)
- 3. Ana walks the most _____ of all. (slowly, slowliest)
- **4.** Max climbs the ______. (more fast, fastest)
- **5.** This hike is _____ than the last one! (worst, worse)



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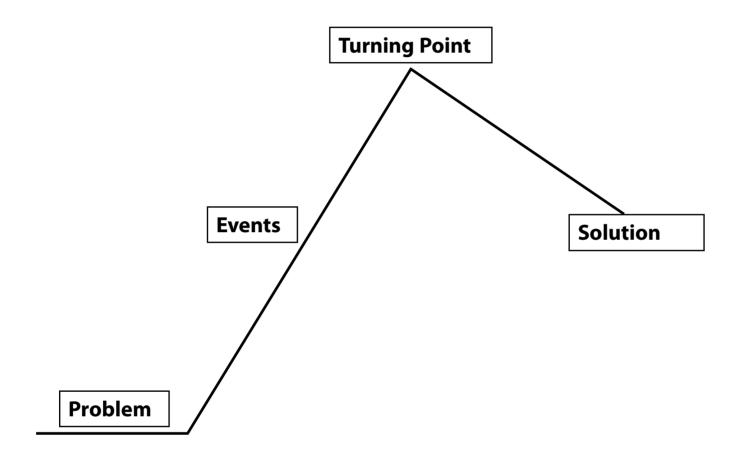
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PM7.16

Plot Diagram

Plot of a Story

Make a plot diagram about a favorite story.



Use the plot diagram to retell your story to a partner.

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PM7.17

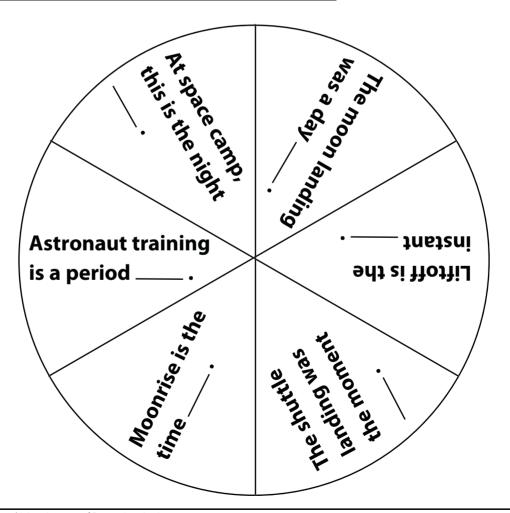
Relative Adverb Spinner

Directions:

- 1. Take turns spinning the spinner.
- 2. Complete the sentence with a dependent clause that begins with the relative adverb when.
- 3. Play until you have completed all the sentences. Then play another round!

Make a Spinner

- 1. Put a paper clip over the center of the spinner.
- **2.** Touch the point of a pencil on the middle of the wheel and through the loop of the paper clip.
- 3. Spin the paper clip to make a spinner.



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PM7.18

Grammar: Grammar and Writing

Edit and Proofread

Choose the Editing and Proofreading Marks you need to correct the passage. Look for correct usage of the relative adverbs:

- when
- where
- why

Editing and Proofreading Marks

^	Add.
هو	Take out.
	Move to here.
⋄	Add comma.
\odot	Add period.

"Do you want to go to the space museum?" my cousin Luis asked. "Saturday is the day where kids get in free."

Luis always has great ideas for things to do. That is the reason when I like to hang around with him. "Sure," I answered.

Free admission was the reason where some kids were there
Saturday morning, but other kids, like Luis and me, really wanted
to learn stuff. We loved the exhibit for the Hubble Space Telescope.
April, 24 1990, was the date where Hubble was launched. And April
24, 2010, was Hubble's 20th birthday! We learned about the place
the Hubble space program is directed. It is the NASA Goddard Space
Flight Center in Maryland.

PM7.19

Name	Date

Test-Taking Strategy Practice

Read All Choices

Read each question about "The Moon Over Star." Choose the best answer.

Sample



- He is working on the tractor in the barn.
- He thinks the space program is a waste of money.
- © He remembers the first time he saw an airplane.
- D He is too tired to watch the moon landing.
- 2 Astronaut Neil Armstrong said, "The Eagle has landed." What does this mean?
 - An Eagle has landed on the moon.
 - B An Eagle has landed on the spacecraft.
 - © The spacecraft has landed on an Eagle.
 - The spacecraft has landed on the moon.
- Gramps tells Mae to "keep on dreaming." What is Mae's dream?
 - watching astronauts on television
 - **®** making Gramps proud of her
 - © going to the moon
 - flying an airplane



Tell a partner how you used the strategy to answer the questions.

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PM7.20

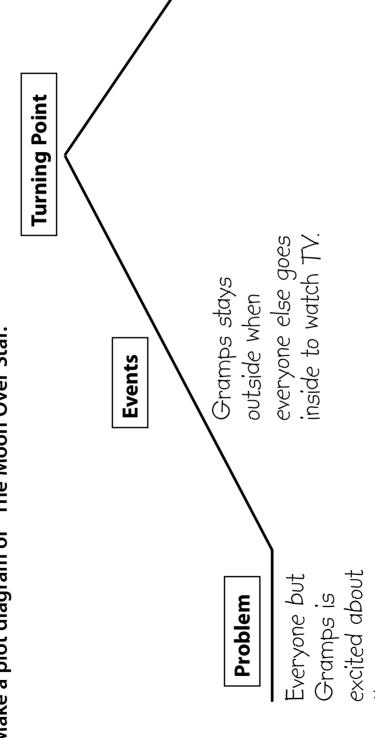
Solution

COPY READY

Plot Diagram

"The Moon Over Star"

Make a plot diagram of "The Moon Over Star."



Use your plot diagram to retell the story to a partner.

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PM7.21

Unit 7 | Moving Through Space

program.

the space

Name	Date

Fluency Practice

"The Moon Over Star"

Use this passage to practice reading with proper expression.

Later, when it was as quiet as the world ever gets, Gramps	12
and I stood together under the moon.	19
"What's mankind?" I asked him.	24
"It's all of us," he finally said. "It's all of us who've ever lived,	38
all of us still to come."	44
I put my hand in his. "Just think, Gramps, if they could go	57
to the moon, maybe one day I could too!"	66
"Great days," he said, "an astronaut in the family. Who'd a thought?"	78
I smiled in the dark. My gramps was proud of me.	89

From "The Moon Over Star," page 473

Intonation Does not read with feeling. Reads with some feeling, but does not match content.	Reads with appropriate feeling for most content. Reads with appropriate feeling for all content.			
Accuracy and Rate Formula Use the formula to measure a reader's accuracy and rate while reading aloud.				
words attempted number of errors in one minute	= words correct per minute (wcpm)			

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Grammar: Reteach

Cooking Class

Grammar Rules: Adverbs

An **relative adverb** relates a dependent clause to a noun in the main clause.

- When relates to a noun of time.
- Where relates to a noun of place.
- Why relates to a reason for something.

Three o'clock is the time when I take my cooking class.
This is the classroom where I go to the class.

Good food is the reason why I love this class.

Read the sentences below. Circle the relative adverb in each one. Then fill in the correct words to complete the last sentence.

- 1. This is the table where we read the recipes.
- 2. The beginning of class is the time when we get our jobs.
- **3.** A broken mixer is the reason why we have to mix the batter by hand.
- **4.** The end of class is the time when we clean up.
- 5. The sink is the place where I put the dirty bowls.
- **6.** The big mess is the reason why I stayed late.



With a partner, talk about a special class or activity. Take turns using relative adverbs to describe it.

lame	Date

Grammar: Game

Preposition Clues

Directions:

- 1. Player 1 tosses a coin onto the set of squares.
- 2. If the preposition the coin lands on tells a location, Player 1 uses the preposition in a sentence describing the location of an object in the classroom. ("This object is beside the teacher's desk.")
- 3. If the preposition describes when something happens, Player 1 uses it to describe an event.
- 4. Teammates guess what the object or event is. Guessers can use other prepositions to ask more questions. ("Is it on the floor?" "Is it before lunch?")
- 5. The player who guesses correctly tosses the next coin, and play continues until everyone has had three turns.

above	during	inside
under	from	before
after	behind	outside
next to	between	near
beside	from to	over

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PM7.24



Sort Prepositions

Directions:

- 1. Write the prepositions from your list in the appropriate column below. You will have two minutes to sort all of your prepositions. Remember: Some prepositions can go in more than one column.
- 2. Check your chart with a partner. Assign yourself one point for each preposition you sorted correctly.
- 3. Add all your points and compare your score with some of your classmates' scores.

Location	Time	Direction	Other

Name	Date

Comparison Chart

Compare Fiction and Biography

Compare a story and a biography.

Event or Fact	"The Moon Over Star"	"The First Person on the Moon"
Neil Armstrong was born in 1930.		✓
In 1961, President Kennedy said that America would send people to the moon.	√	✓
Armstrong, Aldrin, and Collins flew to the moon in the summer of 1969.		
Armstrong was the commander of the mission.		
The first person to walk on the moon was Armstrong.		
The world watched on television.		
Armstrong said, "One small step for man, one giant leap for mankind."		
The astronauts placed a flag on the moon.		
The moon is 240,000 miles from Earth.		



Work with a partner to complete the chart. What other fact or event did you add? Discuss with another team the facts that each selection gave about Armstrong.

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Grammar: Practice

The Moon Over Me

Grammar Rules Prepositional Phrases

A prepositional phrase starts with a preposition and ends with a noun or a pronoun. A prepositional phrase can:

show where	in, on, at, over, under, above, below, next to, beside, in front of, behind
show time	after, until, before, during
show direction	into, throughout, up, down, through, across, to
add details	with, to, about, among, except, of, from

Add one or more prepositional phrases to each sentence.

- 1. I found a book about the moon ______.
- **2.** The book was filled ______ .
- **3.** I was excited to take the book _______.
- **4.** We have been studying ______.
- **5.** My teacher liked the fact sheet _______.
- **6.** My favorite photo is the picture ______.



Choose a Picture Card and use prepositional phrases to tell about it. For example: I want to travel in a space ship.

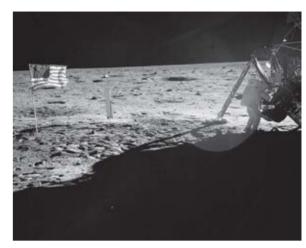
lame	Date

Mark-Up Reading

The Lunar Landing

by Neil Armstrong, Walter Cronkite, and Edwin Aldrin

On July 20, 1969, American astronauts Neil Armstrong and Edwin "Buzz" Aldrin became the first humans on the moon. Following is a **transcript** of what Armstrong said as he stepped out of the Eagle, the LM or **lunar module**, and down its ladder. At first Armstrong spoke to Aldrin, who was still inside the LM.



Armstrong and Aldrin left an American flag on the moon.

Armstrong: Okay, I just checked getting back up to that first step, Buzz. It's... The **strut** isn't collapsed too far, but it's adequate to get back up... Takes a pretty good little jump (to get back up to the first step). (Pause) I'm at the foot of the ladder. The LM footpads are only **depressed** in the surface about 1 or 2 inches, although the surface appears to be very, very fine grained as you get close to it. It's almost like a powder. [The] ground mass is very fine. I'm going to step off the LM now. (Long Pause) That's one small step for ... man; one giant leap for mankind.

Reporter Walter Cronkite described the event live on television.

Cronkite: So there's a foot on the moon, stepping down on the moon. If he's testing that first step, he must be stepping down on the moon at this point. Whoa, look at those pictures—wow! It's a little shadowy, but he said he expected that in the shadow of the lunar module. Armstrong is on the moon—Neil Armstrong, 38-year-old American, standing on the surface of the moon on this July 20th, 1969.

In Other Words

transcript written record **lunar module** spaceship that landed on the moon

strut support for the ladder **depressed** sank

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PM7.28

Mark-Up Reading

The Lunar Landing (continued)

Cronkite watched as Buzz Aldrin followed Armstrong down the ladder and became the second man on the moon.

Cronkite: Aldrin then followed Armstrong out of the LM and into history. There he comes. Watch that last step! I guess he expected that step to compact a little bit more and, as a result, it's a long step. And now we have two Americans on the moon.

Three-foot first step at one-sixth gravity, and look at that!



▲ Walter Cronkite watched Armstrong and Aldrin step off the LM onto the surface of the moon.

More than forty-five years later, Buzz Aldrin reflected on the event in his book, Buzz Aldrin: Reaching for the Moon.

Aldrin: Neil and I put on our space suits. Neil climbed out first and descended *Eagle's* ladder to the moon's surface. Everyone listening back on Earth heard Neil's first words: "That's one small step for... man, one giant leap for mankind."

I climbed down the ladder and joined Neil. There was no color on the moon. A flat landscape of rocks and craters stretched in all directions. Everything was gray or white. The shadows and the sky above were as black as the blackest velvet I had ever seen. I exclaimed: "Magnificent desolation."

In Other Words

compact push together with the next step

Three-foot first step He easily jumps three feet between the ladder and the ground

Magnificent desolation. Amazing and beautiful emptiness.

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PM7.29

Name	Date

Grammar: Grammar and Writing

Edit and Proofread

Choose the Editing and Proofreading Marks you need to correct the passage. Look for correct usage of:

- prepositions
- prepositional phrases

Editing and Proofreading Marks

^	Add.
タ	Take out.
5	Move to here.
^	Add comma.
•	Add period.

of

Darkness looms around us. Not a speck light creeps into the huge room. We are a planetarium, and the show is starting!

A professor beside the university walks in front of us. "You are about to travel through the universe," he says outside a deep voice. "Is everyone ready?" Suddenly images stars appear on a screen above our heads. We stare in amazement from the starry dome. It is like looking the night sky, only a thousand times better.

Mysterious music swirls us. It fades, and the professor begins speaking again. He tells us the images. Then we zoom close to a star. It's like really being of space! It will be hard to return Earth after traveling through.

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PM7.30

Grammar: Reteach

Walking the Dog

Grammar Rules: Prepositions

A **preposition** links a noun or pronoun to other words in a sentence.

- Prepositions show location, time, or direction.
- Some prepositions have many uses.

A **prepositional phrase** always begins with a preposition and ends with a noun or pronoun.

I walk the dog on the sidewalk. (location)

I can walk the dog <u>until</u> dinner. (time)

I walk the dog <u>across</u> the park. (direction)

I walk the dog for an hour.

I walk the dog to the supermarket.

Read the sentences below. Circle the preposition and underline the prepositional phrase.

- 1. I walked my dog, Sandy, to the lake.
- 2. She jumped into the water!
- **3.** I called her and raced around the lake.
- **4.** Finally, she bounced up the steps.
- **5.** She darted behind the bushes.
- **6.** We ran home after the fun.



With a partner, talk about the dog's activities during her walk. Use prepositional phrases to describe what she did.

Answer Keys

Page PM7.1

How It's Done!

Adjectives		Adverbs	
swift	tall	rapidly	extremely
slow	speedy	swiftly	fairly
rapid	sluggish	very	really

Choose adjectives and adverbs from the box to complete the sentences. Follow the order shown in parentheses. Use a variety of adjectives and adverbs!

- 1. The rocket ship is ____ ____ . (adverb, adjective)
- 2. That falcon flies ____ _____ . (adverb, adverb)
- 3. A person can be ________. (adverb, adjective)
- ____ . (adverb, adjective)
- 5. The beam of light travels ____ ___ . (adverb, adverb).
- ____ . (adverb, adjective) 6. Cheetahs are _
- **7.** This ostrich is ___ ____. (adverb, adjective)
- 8. The meteoroid zooms ___ __ . (adverb, adverb)

Responses will vary, but students must place adjectives and adverbs correctly. Examples: The rocket ship is really speedy/That falcon flies extremely swiftly/A person can be very slow.

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PM7.3

Unit 7 | Moving Through Space

Also available in Resource Directory ONGReach.com

Comparison Chart

Comparing Sports

Make a comparison chart to compare one of the sports on page 427 with another sport.

Comparison Chart

Sport	Where	Goal	Measure Speed
swimming	in a pool, in water	to be the first one to finish the race	stopwatch
Possible response: running	Possible response: at a track, on land	Possible response: to be the first one to finish the race	Possible response: stopwatch

Page PM7.2

PM7.2

Grammar: Grammar and Writing

Edit and Proofread

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Choose the editing and proofreading marks you need to correct the passage. Look for correct usage of:

adverbs

adiectives

Editing and Proofreading Marks

Unit 7 | Moving Through Space

^	Add.
مو	Take out.
9	Move to here.
^	Add comma.
⊗	Add period.

nervously Ella stood nervous at the edge of the pool. Every muscle in her body was tensely as she waited for the signal to begin.

"Go!" the coach yelled sudden. She sprang instant into the blue water. Her arms slashed up. They slashed downly. They were like a whirling windmill slicing through the water.

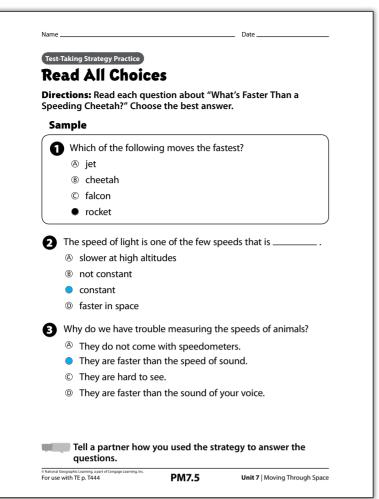
Freestyle was Ella's best stroke, and she was confidently as she sped through the water. The turn was coming up. She swam energetically, got to the wall, and pushed off hardly. She heard the loudly screams of the crowd, but all her concentration was focused on swimming as fast as she could.

The race was near over. She had a few yards to go. Final she slapped her hand on the edge of the pool. A roar rose quick up from the crowd. She had won, she realized excited!

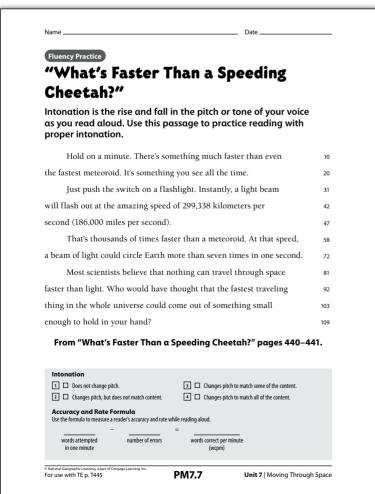
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PM7.4

Answer Keys, continued



Page PM7.5



Page PM7.7

Name	Date

Comparison Chart

"What's Faster Than a Speeding Cheetah?"

Make a comparison chart for "What's Faster Than a Speeding Cheetah?"

Animal or	How it	Fastest	Record
Object	Moves	Speed	
ostrich	runs on two	72 km (45	fastest animal
	legs	mi) per hour	with two legs
cheetαh	runs on four	II3 km (70	fastest land
	legs	mi) per hour	animal
peregrine falcon	flies and dives	322 km (200 mi) per hour	fastest dive
jet plane	flies	2,124 km (1,320 mi) per hour	some fly twice the speed of sound

Use your comparison chart to tell a partner how the animals and objects are alike and different.

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PM7.6

Unit 7 | Moving Through Space

Page PM7.6

Grammar: Reteach The Bicycle Race Grammar Rules: Adverbs		
An adverb describes a verb. It can come before or after a verb and tells how, where, when, or how often/how much. Many adverbs end in -ly. An adverb can modify an adjective or another adverb. Use an adverb instead of an adjective to tell about a verb. Never use an adverb after a form of the verb to be.	Miguel pedals his bicycle quickly. (How does he pedal?) Matt sometimes rests. (How often does he rest?) Denny bikes very slowly. (How slowly?) Rosa pedals happily. Rosa is happy to race.	

Page PM7.8

ľ	Make a Face! Draw an oval on a separate sheet of paper. With a partner, take turns drawing a space creature's face by adding one feature, such as eyes or antennae, on the separate paper for each turn. Make your space creature as weird or silly as you like.		
tu as			
Di	rections:		
1.	With your partner, take turns completing the sentences. Add -er to the adverb in parentheses or use more or less.		
2.	If your partner agrees that your sentence is correct, add one feature to the face. If not, your partner corrects the sentence and adds a feature to the face.		
3.	When the sentences are complete, your Martian will be, too!		
1.	The Martians eat more noisily or less noisily They sleep more frequently or than bears in winter.		
2.	(frequently) less frequently		
3.	The creatures on Venus move than snails. (slow)		
	They jumphigher than frogs! (high)		
4.			
	Some creatures on Jupiter fly <u>faster</u> than jets. (fast)		

Page PM7.9

Compare facts and opinions in the two selections. **Facts Opinions** "What's Possible responses: A peregrine falcon Faster Than A peregrine falcon is magnificent. can dive faster than a Speeding Possible response: any creature can Cheetah?" ... you might be run. thinking that the Sound travels in meteoroid you saw was the fastest thing A meteoroid is a you could ever see. space rock. "Building for Constance Adams Possible response: Space Travel" helped design A crew's comfort is TransHAb. not important on short missions. Possible response: One very strong material was Kevlar, which is used in convertible cars.

Compare Fact and Opinion

Take turns with a partner. Ask each other questions about the facts and opinions found in the selections.

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Unit 7 | Moving Through Space

Grammar: Game

Match and Make Comparisons

1. Take turns with your partner. Spin the spinner. Look at the letters or words you landed on.

2. Choose an adverb from the box that works with what you

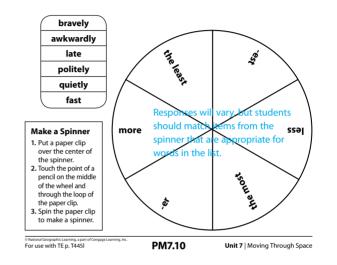
3. Use your comparison adverb in a sentence.

late = latest.

4. If your partner agrees that your sentence is correct, score 1 point. If not, your partner takes a turn.

landed on. Form a comparison adverb. For example: -est +

Continue until all the words in the box have been used correctly to make comparison adverbs. The player with more points at the end is the winner.



Page PM7.10

Name _______ Date ______

Grammar: Practice

Exercising in Zero Gravity

irammar Rules Adverbs			
Jse adverbs to o	lescribe and con	npare actions.	
Describe 1 action	soon	careful ly	
Compare 2 actions	soon <u>er</u>	more careful ly than	less careful ly than
Compare more than 2 actions	soon <u>est</u>	the most careful ly	the least careful ly

Read each sentence. Write the correct form of the adverb on the line.

- 1. Every day I enter the gym <u>sooner</u> than my partner.
- 2. I walk in eagerly (eagerly) than a gymnast.
- **3.** I notice that the equipment is attached <u>securely</u> (securely)
- **4.** At first, I ran the quickly (quickly) of all the astronauts.
- 5. If I keep practicing, I may one day run the Tastest of all.

 (fast)

 (fast)
- **6.** Scientists planned TransHab the $\frac{\text{carefully}}{\text{(carefully)}}$ of any gym.

Pantomime an action an astronaut might do in zero gravity.
Have your partner describe or compare your action using an adverb. Then switch roles.

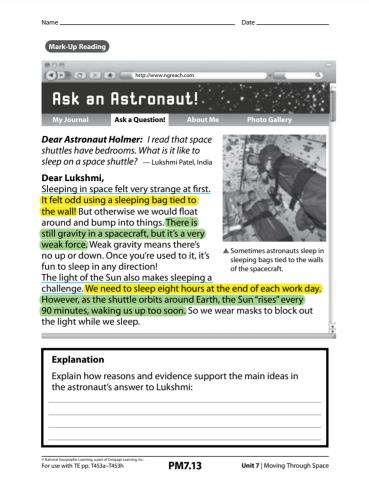
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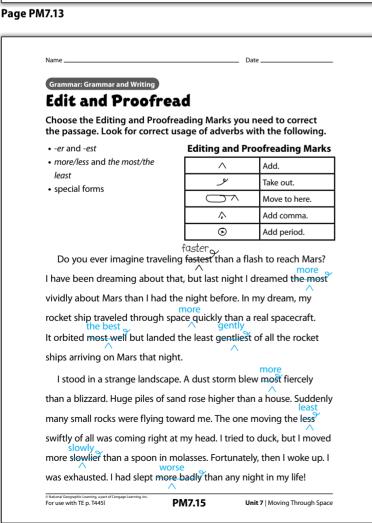
For use with TE p. T452a

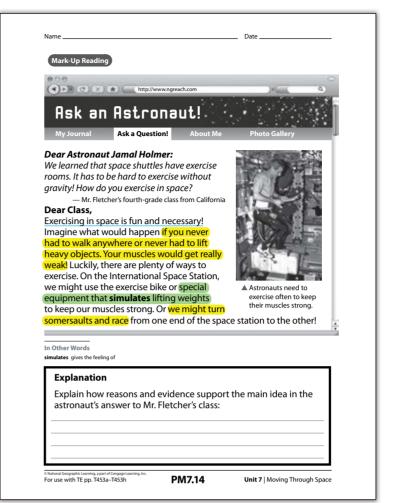
PM7.12

Unit 7 | Moving Through Space

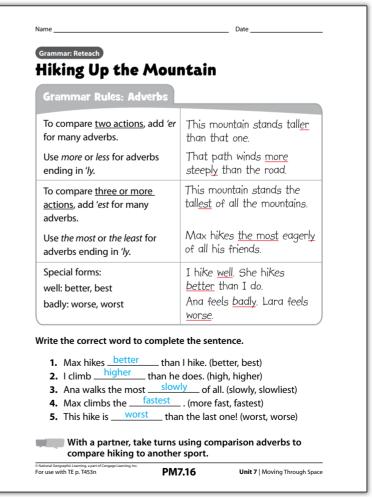
Answer Keys, continued



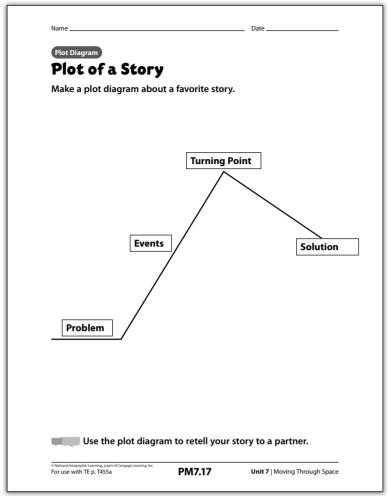




Page PM7.14



Page PM7.16



Page PM7.17

Grammar: Grammar and Writing **Edit and Proofread** Choose the Editing and Proofreading Marks you need to correct the passage. Look for correct usage of the relative adverbs: **Editing and Proofreading Marks** where Add. • why Take out. 71 Move to here. Add comma. **^** (3) Add period. "Do you want to go to the space museum?" my cousin Luis asked. "Saturday is the day where kids get in free." Luis always has great ideas for things to do. That is the reason when I like to hang around with him. "Sure," I answered. Free admission was the reason where some kids were there Saturday morning, but other kids, like Luis and me, really wanted to learn stuff. We loved the exhibit for the Hubble Space Telescope. April, 24 1990, was the date where Hubble was launched. And April 24, 2010, was Hubble's 20th birthday! We learned about the place the Hubble space program is directed. It is the NASA Goddard Space Flight Center in Maryland. O National Geographic Learning, a part For use with TE p. T453v PM7.19 Unit 7 | Moving Through Space **Relative Adverb Spinner** 1. Take turns spinning the spinner. 2. Complete the sentence with a dependent clause that begins with the relative adverb when. 3. Play until you have completed all the sentences. Then play another round! Responses will vary, but the dependent Make a Spinner clause in each Put a paper clip over the center of the spinner.
 Touch the point of a pencil on the middle of the wheel and through the loop of the paper clip.
 Spin the paper clip to make a spinner. sentence must begin with when. Example: At space camp, this is the night when we this is the night observe the stars. านยารนเ Astronaut training Liftoff is the is a period sem buipuel © National Geographic Learning, a part For use with TE p. T453u PM7.18 Unit 7 | Moving Through Space

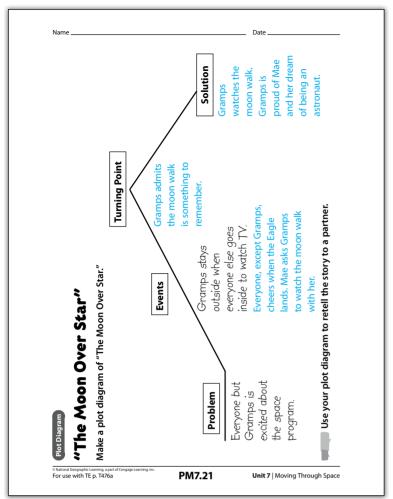
Page PM7.18

Read	ad All Choices each question about "The Moon Over Star."
	se the best answer. mple
ึก	Why isn't Gramps excited about the moon landing?
U	He is working on the tractor in the barn.
	 He thinks the space program is a waste of money.
	© He remembers the first time he saw an airplane.
	He is too tired to watch the moon landing.
_	Astronaut Neil Armstrong said, "The Eagle has landed." What does this mean?
	An Eagle has landed on the moon.
	® An Eagle has landed on the spacecraft.
	© The spacecraft has landed on an Eagle.
	The spacecraft has landed on the moon.
3	Gramps tells Mae to "keep on dreaming." What is Mae's dream?
	watching astronauts on television
	® making Gramps proud of her
	going to the moon
	flying an airplane

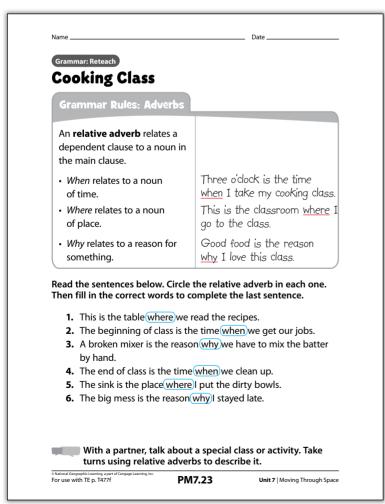
Page PM7.19

Page PM7.20

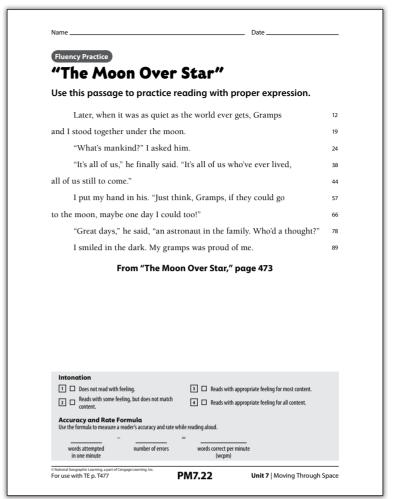
Answer Keys, continued



Page PM7.21



Page PM7.23



Page PM7.22

-	Clues			
Directions:				
•	oin onto the set of squa			
 If the preposition the coin lands on tells a location, Player 1 uses the preposition in a sentence describing the location of an object in the classroom. ("This object is beside the teacher's desk.") 				
3. If the preposition of Player 1 uses it to	describes when somet describe an event.	hing happens,		
	what the object or eve ions to ask more quest lunch?")			
	5. The player who guesses correctly tosses the next coin, and play continues until everyone has had three turns.			
above during inside				
above	during	inside		
under	during from	inside before		
under	from	before		

Sort Prepositions

- 1. Write the prepositions from your list in the appropriate column below. You will have two minutes to sort all of your prepositions. Remember: Some prepositions can go in more than one column.
- 2. Check your chart with a partner. Assign yourself one point for each preposition you sorted correctly.
- 3. Add all your points and compare your score with some of vour classmates' scores.

Location	Time	Direction	Other

For use with TE p. T477m

PM7.25

Unit 7 | Moving Through Space

Page PM7.25

The Moon Over Me

Grammar Rules Prepositional Phrases

A prepositional phrase starts with a preposition and ends with a noun or a pronoun. A prepositional phrase can:

show where	in, on, at, over, under, above, below, next to, beside, in front of, behind
show time	after, until, before, during
show direction	into, throughout, up, down, through, across, to
add details	with, to, about, among, except, of, from

Add one or more prepositional phrases to each sentence.

- 1. I found a book about the moon <u>at the library</u>
- 2. The book was filled with beautiful photographs
- **3.** I was excited to take the book to school
- **4.** We have been studying <u>about the moon in class</u>
- **5.** My teacher liked the fact sheet at the back of the book
- **6.** My favorite photo is the picture with the flag on the moon

Choose a Picture Card and use prepositional phrases to tell about it. For example: I want to travel in a space ship.

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PM7.27

Unit 7 | Moving Through Space

Compare Fiction and Biography

Compare a story and a biography.

Event or Fact	"The Moon Over Star"	"The First Person on the Moon"
Neil Armstrong was born in 1930.		✓
In 1961, President Kennedy said that America would send people to the moon.	✓	√
Armstrong, Aldrin, and Collins flew to the moon in the summer of 1969.	✓	✓
Armstrong was the commander of the mission.	✓	✓
The first person to walk on the moon was Armstrong.	✓	✓
The world watched on television.	✓	✓
Armstrong said, "One small step for man, one giant leap for mankind."	✓	✓
The astronauts placed a flag on the moon.		✓
The moon is 240,000 miles from Earth.	✓	
Responses will vary.		

Work with a partner to complete the chart. What other fact or event did you add? Discuss with another team the facts that each selection gave about Armstrong.

For use with TE p. T481a

PM7.26

Unit 7 | Moving Through Space

Page PM7.26

The Lunar Landing

On July 20, 1969, American astronauts Neil Armstrong and Edwin "Buzz" Aldrin became the first humans on the moon. Following is a **transcript** of what Armstrong said as he stepped out of the Eagle, the LM or lunar module, and down its ladder. At first Armstrong spoke to Aldrin, who was still inside the LM.



Armstrong and Aldrin left an American flag on the moon.

Armstrong: Okay, I just checked getting back up to that first step, Buzz. It's. . . . The **strut** isn't collapsed too far, but it's adequate to get back up. . . . Takes a pretty good little jump (to get back up to the first step). (Pause) I'm at the foot of the ladder. The LM footpads are only **depressed** in the surface about 1 or 2 inches, although the surface appears to be very, very fine grained as you get close to it. It's almost like a powder. [The] ground mass is very fine. I'm going to step off the LM now. (Long Pause) That's one small step for ... man; one giant leap for mankind.

Reporter Walter Cronkite described the event live on television.

Cronkite: So there's a foot on the moon, stepping down on the moon. If he's testing that first step, he must be stepping down on the moon at this point. Whoa, look at those pictures—wow! It's a little shadowy, but he said he expected that in the shadow of the lunar module. Armstrong is on the moon—Neil Armstrong, 38-year-old American, standing on the surface of the moon on this July 20th, 1969.

In Other Words

lunar module spaceship that landed on the moon

depressed sank

For use with TE pp. T483a-T483h

PM7.28

Answer Keys, continued

The Lunar Landing (continued)

Cronkite watched as Buzz Aldrin followed Armstrong down the ladder and became the second man on the moon.

Cronkite: Aldrin then followed Armstrong out of the LM and into history. There he comes. Watch that last step! I guess he expected that step to compact a little bit more and, as a result, it's a long step. And now we have two Americans on the moon. Three-foot first step at one-sixth

gravity, and look at that!



▲ Walter Cronkite watched Armstrong and Aldrin step off the LM onto the surface of the moon.

More than forty-five years later, Buzz Aldrin reflected on the event in his book, Buzz Aldrin: Reaching for the Moon.

 $\textbf{Aldrin:} \ \ \text{Neil and I put on our space suits.} \ \ \text{Neil climbed out first and}$ descended Eagle's ladder to the moon's surface. Everyone listening back on Earth heard Neil's first words: "That's one small step for... man, one giant leap for mankind."

I climbed down the ladder and joined Neil. There was no color on the moon. A flat landscape of rocks and craters stretched in all directions. Everything was gray or white. The shadows and the sky above were as black as the blackest velvet I had ever seen. I exclaimed: "Magnificent desolation."

compact push together with the next step

Three-foot first step He easily jumps three feet between the ladder and the ground Magnificent desolation. Amazing and beautiful emptiness.

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PM7.29

Unit 7 | Moving Through Space

Page PM7.29

Grammar: Reteach Walking the Dog **Grammar Rules: Prepositions** A preposition links a noun or I walk the dog on the sidewalk. (location) pronoun to other words in a I can walk the dog until • Prepositions show location, dinner. (time) I walk the dog across the time, or direction. park. (direction) • Some prepositions have many uses. I walk the dog for an hour. I walk the dog to the A prepositional phrase always begins with a preposition and supermarket.

Read the sentences below. Circle the preposition and underline the prepositional phrase.

- 1. I walked my dog, Sandy, to the lake.
- 2. She jumped into the water!

ends with a noun or pronoun.

- 3. I called her and raced around the lake.
- 4. Finally, she bounced up the steps.
- 5. She darted behind the bushes.
- 6. We ran home after the fun.

	walk. Use prepositiona	out the dog's activities during her I phrases to describe what she dic
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PM7.31

Page PM7.31

ame		Date	
	Reading _unar Landing ng's and Cronkite's Accou		
Narrator	What he does and sees	Information he gives	Type of account
Armstrong	checks the ladder studies the moon's surface steps onto the moon says "That's one small step forman; one giant leap for mankind."	technical information about the LM scientific information about the moon's surface	firsthand
Cronkite	describes the video footage coming from the moon sees Armstrong step onto the moon	- historic details of the event	secondhand
Cronkite	e's and Aldrin's Accounts What he does and sees	Information he gives	Type of account
Cronkite	describes the video footage coming from the moon sees Aldrin stepping onto the surface of the moon	the fact that two humans were on the moon	secondhand
Aldrin	- climbs down onto the moon - sees a coloriess rocky landscape - sees a big black sky - says "Magnificent desolation."	what the moon looks like as you stand on it	firsthand

PM7.30

Unit 7 | Moving Through Space

Page PM7.30

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Small Group Reading Unit 7

Books at a Glance

Lexile® key

BL *Below Level* = 400L–550L

OL On Level = 700L-850L

BL *Below Level* = *550L*–*700L*

AL Above Level = 800L-950L

			Level* & Title	Author	Content Connection	Pages
Week 1 Forces and Motion	DAY 1		Explorer Books, Soaring with Science Dip Pioneer Edition Pathfinder Edition	Susan Halko	Laws of Motion	SG4–SG5
			BL Forces That Move	Kate Bohem Jerome	Forces	SG6, SG8
	3-2		BD Defining the Laws of Motion	Glen Phelan	Motion	SG6, SG8
	DAYS 2-5		Using Force and Motion	Glen Phelan	Motion, Gravity, and Friction	SG7, SG9
			The Science of Hitting a Home Run	Jim Whiting	Forces and Motion	SG7, SG9
Week 2 Moon, Space, and Stars	DAY 1		Explorer Books, Destination: Moon Display Pioneer Edition Pathfinder Edition	Beth Geiger	The Moon	SG10-SG11
	AYS 2–5		Lighter on the Moon	Jeanne and Bradley Weaver	Gravity in Space	SG12, SG14
			EL Exploring Space	Kate Boehm Jerome	Space Exploration	SG12, SG14
oon,	DAY		The International Space Station	Franklyn M. Branley	Space Station	SG13, SG15
Σ			Stars and Galaxies	Ellen Fried	Space	SG13, SG15
Ge	DAY 1		Explorer Books, <i>Living It Up in Space</i> Dip Pioneer Edition Pathfinder Edition	Nancy Finton	Astronauts	SG16–SG17
k 3 y Spa	DAYS 2-5		Richie's Rocket	Joan Anderson	Space Exploration	SG18, SG20
Week 3 Exploring Space		PART 1	Stanley in Space	Jeff Brown	Space Exploration	SG18, SG20
Expl		PART 1	Star Jumper: Journal of a Cardboard Genius	Frank Asch	Spaceships	SG19, SG21
		PART 1	The Space Mission Adventure	Sharon M. Draper	Space Camp	SG19, SG21
Ce	DAY 1		Explorer Books, Saturn: The Ring World Dip Pioneer Edition Pathfinder Edition	Lesley J. MacDonald	Planets	SG22-SG23
s 4 I Spa			BL Moonshot	Brian Floca	Lunar Exploration	SG24, SG26
Week 4 loring Sp	2-5	PART 2	BL Stanley in Space	Jeff Brown	Space Exploration	SG24, SG26
Week 4 Exploring Space	DAYS	PART 2	Star Jumper: Journal of a Cardboard Genius	Frank Asch	Spaceships	SG25, SG27
		PART 2	The Space Mission Adventure	Sharon M. Draper	Space Camp	SG25, SG27

Unit 7 Reading Routines Fiction & Nonfiction

PROGRAM RESOURCES

PRINT ONLY

Fiction and Nonfiction Books

PRINT & TECHNOLOGY

Unit 6 Assessment Masters: SG6.29–SG6.32

Unit 7 Practice Masters: SG7.1-SG7.28

Unit 7 Assessment Masters: SG7.29–SG7.32

TECHNOLOGY ONLY

My Vocabulary Notebook

WEEK 1 Non fiction



WEEK 2 Non Fiction



WEEK 3 Fiction



MOUNSHOT

STARY

Black Prinosaurs

Stanky

PART 2

SHARON M. BPAPTE

PART 2

PART 2

Introduce X/XXXX

Assign books. Use the summaries of the books in the Teaching Resources for an overview of content. Analyze the Unit 6 **Assessment Masters** and your conference notes to assign books according to students' interests and reading levels.

Introduce books. Activate prior knowledge and build background for the books, using the Teaching Resources. Remind students that all of the books connect to the Big Question: *What does it take to explore space?*

Introduce vocabulary. Use **Vocabulary Routine 1** to teach the story words for each book.

- 1. Display the words for each book.
- 2. Pronounce each word.
- **3.** Have students **rate** each word, holding up their fingers to show how well they know the word (1 = not at all; 2 = a little; 3 = very well). Ask: What do you know about this word?
- **4.** Have students **define** each word, using the Story Words **Practice Masters**. For example: A *curious* person has many questions.
- Relate each word to students' knowledge and experience. I am curious about what makes rockets fly. Have students work in pairs to elaborate.
- **6.** Have students **record** each word in **My Vocabulary Notebook**.

For **Vocabulary Routine 1**, see page BP46.

Read and Integrate Ideas ***

Have students read independently. Circulate to observe students as they read. Ask individuals to read sections aloud. Note any miscues as they read, and encourage students to self-correct. Model by asking questions like: *Did that make sense in the sentence? You said* _____. *Does that sound right?*

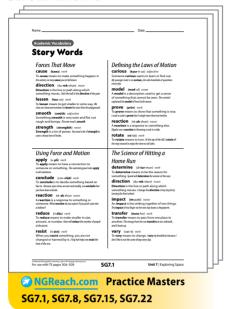
Monitor students' understanding. As students read, have them complete the Graphic Organizer **Practice Master** for their books. Prompt them to show you where in the books they gathered the information to complete their organizers.

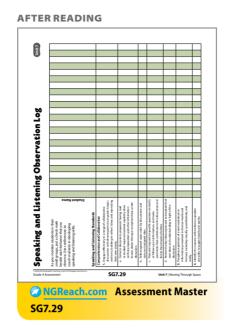
Form homogeneous discussion groups. Group students who have read the same book. Distribute the Discussion Guide **Practice Master** for that book to each group member.

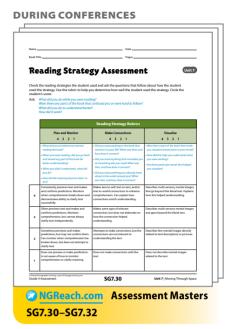
Monitor group discussions. Have students discuss the book they read, using the questions on the Discussion Guide. Use the build comprehension questions in the Teaching Resources to develop higher-order thinking skills. See the Discussion Guide Answer Keys on pages SG60–SG67.

Provide writing options. Have each student complete one of the writing options from the Teaching Resources. Encourage students to share their writing with their group.

REFORE READING







Connect Across Texts ****

Form heterogeneous groups. Group students who have read different books. Include at least one representative for each book read that week.

Introduce the activity. Distribute the Connect Across Texts **Practice Master** for the week. Explain to each group that they will share the books they read, talk about their themes, and discuss what the books say about places in the world.

Have students summarize. Ask students to summarize the books they just read, including new story words that helped them understand the themes and content. Have them refer to their graphic organizers as they share their books with the group.

Have students connect across texts. Have groups use the questions provided on the Connect Across Texts Practice Masters to guide discussions. See the Discussion Guide Answer Keys for possible responses.

Monitor groups. Use Speaking and Listening Observation Log Assessment Master SG7.29 to assess students' participation in discussions.

Conduct Conferences



Assess reading. Have each student select and read aloud from a section of the book that connects to the Big Question. Listen for fluency. Ask: Which strategies did you use to help you understand this section? Use the reading strategy rubrics on Assessment Masters SG7.30 and SG7.31 to assess how well the student uses the reading strategies. Then have the student complete Reader Reflection Assessment Master SG7.32.

Assess writing. Have the student share a completed writing option. Say: Tell me about what you wrote. Monitor responses to gauge how well the writing relates to the book. Ask: How did your writing help you understand the book?

Plan intervention or acceleration. Ask the student to summarize what he or she has learned. Plan for further instruction:

- · If the student needs additional support with synthesizing, comparing and contrasting, explaining text, or comprehending plot, use the Assessment and Reteaching resources provided on pages RT7.1-RT7.13.
- If the student successfully applies the focus skills, use the Recommended Books on page SG68 to guide the student in choosing books for independent reading.

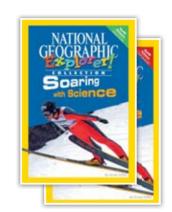
Week 1 Teaching Resources Science Articles

OBJECTIVES

Thematic Connection: Forces and Motion Read and Comprehend Informational Text Determine Word Meanings

Soaring with Science by Susan Halko

Summary Soaring with Science explores Isaac Newton's three laws of motion by describing their effect on ski jumping and on everyday activities. In "Soaring with Science," author Susan Halko explains that champion ski jumper Lindsey Van springs into motion by pushing off a bar. This reflects Newton's first law, which says that a force is needed to move a resting object. Lindsey's speed while she moves down the mountain is affected by her mass. This reflects Newton's second law.



Lift helps Lindsey stay in the air—she pushes air down and air pushes her up. This is Newton's third law, which states that for every action there is a reaction. However, gravity pulls Lindsey back down to the ground. "Laws at Play" shows the laws of motions in action when children play. For example, Newton's second law is evident when someone pushes a child on a swing to make it go faster.

Activate Prior Knowledge Display the front cover and ask: Where have you seen ski jumpers like this one? (Possible responses: TV sports shows; competitions) Have students explain why they think skiing is hard.

Build Background Explain that ski jumpers use their athletic skill to soar high into the air; however, three laws of how objects move are at work, too. Explain that scientist Isaac Newton described these laws. Show the photos on pages 10–11 and have volunteers describe how you move in each activity.

PROGRAM RESOURCES

PRINT ONLY

Soaring with Science, Pioneer Edition Soaring with Science, Pathfinder Edition

TECHNOLOGY ONLY

My Vocabulary Notebook

COMMON CORE STANDARDS

Reading

CC.4.Rinf.4 Determine Meanings of Domain-Specific Words Read and Comprehend Informational Text CC.4.Rinf.10

Language

Acquire and Use Domain-Specific Words CC.4.L.6

Mini Lesson

Determine Word Meanings

Explain: In a text, an author often gives clues to the meaning of unfamiliar words. Clues include definitions, synonyms, and descriptions. Point out that good readers know how to determine word meanings by using clues in a text.

Read aloud the following text from page 4 of the Pioneer Edition of Soaring with Science as students listen.

Forces at Work

But other forces work against [Lindsey]. Friction happens when her skis rub against the snow. It slows her down. For less friction. Lindsey puts wax on her skies. Her skis slide faster.

Text from Pioneer Edition

Then, think aloud to model how to determine word meaning in a text. As I read about the laws of motion in this science article, I come across the word friction. I'm not sure what it means, but as I read on, I see that the sentence tells me that friction happens when Lindsey's skis "rub against the snow." The next sentence says that friction "slows her down." So, the author has included a description of the word friction.

Point out that sometimes words such as "happens when" give a clue that a description will follow. Other clues follow words such as "is called" and "that is."

Have students explain how to determine the meaning of the word *friction* in the above text. (Possible response: The author describes the meaning of the word by saying that friction happens when Lindsey rubs her skis against the snow. The author also says that the rubbing makes her go slower. So, friction is rubbing that makes something go slower.)

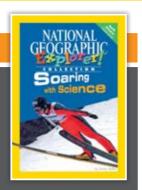
BL BELOW LEVEL



PIONEER EDITION

GR: P

Content Connection: Laws of Motion



Science Vocabulary

Use Wordwise on page 7 to introduce new words:

force friction lift

Have students add new words to My Vocabulary Notebook.

Build Comprehension

After reading, use the Concept Check on page 12. Remind students to use details and examples to support each answer.

- 1. **Main Idea** What forces slow Lindsey down as she skis down the hill? (Friction with the ground and the air that she has to push through slow her down.)
- 2. **Determine Word Meanings** What force pulls objects down to Earth? (Gravity pulls objects down to Earth.)
- 3. **Main Idea** Which force helps Lindsey stay in the air after she jumps? (Lift helps Lindsey stay in the air.)
- 4. **Analyze** Which of Newton's laws explains why ski jumpers can't stay in the air forever? (Newton's first law says that a moving object keeps moving at the same speed and in the same direction unless a force acts on it. The force of gravity pulls Lindsey down and keeps her from soaring forever.)
- 5. **Explain** What law of motion is in use when you give someone a big push on a swing? (Newton's first law is in use. The law says that a resting object will stay at rest unless a force like a big push gets it going.)

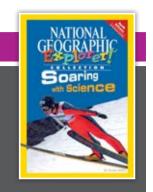
OL ON LEVEL 670L



PATHFINDER EDITION

Lexile: 670L | GR: R

Content Connection: Laws of Motion



Science Vocabulary

Use Wordwise on page 7 to introduce new words:

force friction lift

Have students add new words to My Vocabulary Notebook.

Build Comprehension

After reading, use the Concept Check on page 12. Remind students to use details and examples to support each answer.

- 1. **Main Idea** Name two forces that slow Lindsey down as she skis down the hill. (Friction and the force of the air that she has to push through slow her down.)
- 2. **Determine Word Meanings** What force pulls objects down to Earth? (Gravity pulls objects down to Earth.)
- 3. **Main Idea** Which force helps Lindsey stay in the air after she jumps? (Lift helps Lindsey stay in the air.)
- 4. **Analyze** Which of Newton's laws explains why ski jumpers can't stay in the air forever? (Newton's first law says that a moving object keeps moving at the same speed and in the same direction unless a force acts on it. The force of gravity pulls Lindsey down and keeps her from soaring forever.)
- 5. **Draw Conclusions** According to Newton's second law, what do you need to do to throw a ball farther? (You need to throw the ball harder. That means you throw it with a more powerful force.)

Check & Reteach

OBJECTIVE: Determine Word Meanings

Have partners take turns determining the meaning of the word *motion* on page 3. (*Motion* means "movement." The phrase "how all objects move"/"how things move" appears in the sentence after the sentence with *motion*. The phrase defines what motion is.)
For students who cannot determine word meanings, reteach with the term *lift* on page 6. Say: *The paragraph discusses Lindsey's jump. It says that she gets lift when she jumps. What text helps you understand the meaning of lift?* Have students skim the paragraph. Record the text. ("Lift helps things/objects stay in the air.") Guide students to determine that the author has provided a definition. Then have students explain the meaning of *lift*. (Sample response: Lift is a force that helps people and things stay up in the air.)

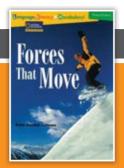
Week 1 Teaching Resources Nonfiction

BELOW LEVEL 560L

Forces That Move by Kate Boehm Jerome

Forces

Expository Nonfiction | Pages: 36 | Lexile: 560L | GR: Q

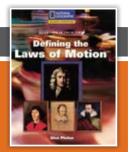


BL BELOW LEVEL 680L

Defining the Laws of Motion by Glen Phelan

Content Connection: Motion

Expository Nonfiction | Pages: 40 | Lexile: 680L | GR: W



OBJECTIVES

Thematic Connection: Forces and Motion

Read and Comprehend Literature

- **☑** Draw Conclusions to Comprehend Text
- **Explain Text Structure: Compare and Contrast**

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.1, page SG28

Practice Master SG7.2, page SG29

Practice Master SG7.3, page SG30

Practice Master SG7.7, page SG34

TECHNOLOGY ONLY

Digital Library: Runners

SUGGESTED PACING

DAY 2 Introduce and read pages 1–15

DAY 3 Read pages 16–36 and discuss

DAY 4 Reteach or conduct intervention

DAY 5 Connect across texts

Summary Forces cause things to move, stop, and change direction. Gravity is a force that acts on your body all the time. It can also make an object change direction. When you toss a ball into the air, you use force to push it away from Earth, and it is gravity that pulls the ball down again. Friction is a force that makes things stop. Snowboarders, swimmers, and other people use forces, such as friction, to help control their motion.

Activate Prior Knowledge Ask: What do you do when you want to move fast? How do you stop moving?

Build Background Display **Digital Library** photo of students running. Say: You need to use force to run. You use your muscles to move your legs and arms. You push against the ground to start moving. When you want to stop, you use a force called friction.

Story Words Use **Practice Master SG7.1** to extend vocabulary.

cause, page 4 direction, page 7 lessen, page 14

smooth, page 20 strength, page 18

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.1, page SG28

Practice Master SG7.2, page SG29

Practice Master SG7.4, page SG31

Practice Master SG7.7, page SG34

TECHNOLOGY ONLY

Digital Library: Telescope

SUGGESTED PACING

DAY 2 Introduce and read pages 1–13

DAY 3 Read pages 14-29

DAY 4 Read pages 30-40 and discuss

DAY 5 Connect across texts

Summary During the European Renaissance (1300s–1600s), scientists helped change prevailing beliefs about motion and the universe. Nicolaus Copernicus of Poland and Galileo Galilei of Italy advanced the idea that Earth and other planets revolve around the sun. In Germany, Johannes Kepler showed that planets' orbits are ellipses, not perfect circles. Later, British physicist and mathematician Isaac Newton built on all these ideas. It was Newton who proved that gravity pulls any two objects together and who defined the three laws of motion.

Activate Prior Knowledge Ask: What scientists can you name? Do you know what discoveries they made?

Build Background Use the photo of a telescope from the **Digital Library** to show how scientists changed people's understanding of the universe. Say: In the 1600s, a scientist named Galileo made a telescope that let people see distant stars.

Story Words Use **Practice Master SG7.1** to extend vocabulary.

curious, page 15 model, page 10 prove, page 16

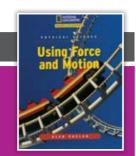
reaction, page 33 rotate, page 12

OL ON LEVEL 740L

Using Force and Motion by Glen Phelan

Content Connection: Motion, Gravity, and Friction

Expository Nonfiction | Pages: 32 | Lexile: 740L | GR: W



COMMON CORE STANDARDS

Reading

Read and Comprehend Literature CC.4.Rlit.10 **Describe Text Structure** CC.4.Rinf.5 Summarize CC.4.Rinf.2

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.1, page SG28

Practice Master SG7.2, page SG29

Practice Master SG7.5, page SG32

Practice Master SG7.7, page SG34

SUGGESTED PACING

DAY 2 Introduce and read pages 1–11

DAY 3 Read pages 12-21

DAY 4 Read pages 22–32 and discuss

DAY 5 Connect across texts

Summary Any time you see movement, forces are at work. Forces are pushes and pulls, and they contribute to everything from the movements of planets to the flow of blood. Gravity is a force that acts on anything with mass. The pull of gravity depends on an object's mass. Friction is a force that slows or stops motion. Newton's three laws of motion explain how objects move, including inertia, friction, acceleration, actions, and reactions.

TECHNOLOGY ONLY

Digital Library: Roller Coaster

Activate Prior Knowledge Ask: What have you tried that makes it easier to run? (Possible responses: wearing different shoes, running on different surfaces)

Build Background Display the photo of a coaster from the **Digital Library**. Say: Many forces are in action in a coaster. The car moves on the track and people move in the cars.

Story Words Use **Practice Master SG7.1** to extend vocabulary.

apply, page 10 conclude, page 13 reaction, page 19

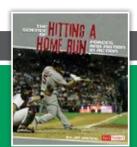
reduce, page 11 resist, page 10

AL ABOVE LEVEL 860L

The Science of Hitting a Home Run by Jim Whiting

Content Connection: Forces and Motion

Expository Nonfiction | Pages: 32 | Lexile: 860L | GR: T



Writing

Write Over Shorter Time for Specific Tasks CC.4.W.10

Speaking and Listening

Draw on Preparation to Explore Ideas CC.4.SL.1.a

Language and Vocabulary

Acquire and Use Academic Words CC.4.L.6

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.1, page SG28

Practice Master SG7.2, page SG29

Practice Master SG7.6, page SG33

Practice Master SG7.7, page SG34

TECHNOLOGY ONLY Digital Library: Baseball Player

SUGGESTED PACING

DAY 2 Introduce and read pages 1-13

DAY 3 Read pages 14-23

DAY 4 Read pages 24–32 and discuss

DAY 5 Connect across texts

Summary Forces combine every time a batter hits a home run. First, the windup transfers momentum from the pitcher's body to the ball. Adding spin creates a curveball by changing airflow around the ball. Then, a strong swing transfers kinetic energy from the bat to the ball. Last comes the hit. Landing the ball in a bat's "sweet spot" limits vibrations in the bat, so that more energy gets to the ball. Using an upswing adds lift to keep the ball flying longer. Hot weather and high elevation are also great for home runs, since thinner air creates less drag.

Activate Prior Knowledge Ask: What is the most exciting part of a baseball game or other ball game?

Build Background Display the photo of a baseball player from the **Digital Library**. Say: *In sports, players use motion. In many* sports, players transfer, or move, energy from their bodies to a ball.

Story Words Use **Practice Master SG7.1** to extend vocabulary.

determine, page 14 direction, page 23 impact, page 20

transfer, page 7 vary, page 12

Week 1 Teaching Resources

BL BELOW LEVEL 560L

Forces That Move by Kate Boehm Jerome

Build Comprehension

- **Explain** What forces describe the motion of a ball you throw into the air? (Possible response: You use force to push the ball into the air. Then, gravity pulls the ball toward Earth. The ball may roll a bit, but then friction makes it stop.)
- **Draw Conclusions** How might ice or water affect the amount of friction when you walk outside after a storm? (Possible response: Ice or water can reduce the amount of friction, so you slide—or fall—more easily.)

Writing Options

- **List** Have students list three examples of gravity and three examples of friction. For each list item, students should tell how the force affects motion.
- **Descriptive Paragraph** Have students choose a photo from the book and write a paragraph that explains the forces it shows. Suggest that students begin by describing what the photo shows and then describe the forces in action.
- **Journal Entry** Have students describe how a favorite sport or hobby that involves movement uses gravity and friction.

BL BELOW LEVEL 680L

Defining the Laws of Motion by Glen Phelan

Build Comprehension

- Goal and Outcome What did Galileo want to prove with his book The Starry Messenger? What was the outcome? (Possible response: He wanted to prove that Copernicus' model of the universe was correct. The book was popular, but he was put on trial for his writing.)
- Make Judgments Which scientist do you think contributed the most to our understanding of motion and the universe? Support your answer. (Students should name one of the four scientists discussed in the book, explaining why his ideas were important.)

Writing Options

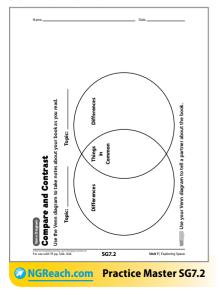
- **Interview Questions** Have students list three questions they would like to ask one of the scientists. Encourage students to trade questions and use the book to discuss the answers.
- **Diary** Have students write a diary entry for Copernicus, Galileo, Kepler, or Newton. For example, after reviewing page 25, students might write about the day Newton made a discovery as he watched an apple fall to the ground.
- **Journal Entry** Invite students to describe one or two ways they have seen Newton's laws of motion in action that day.

Check & Reteach

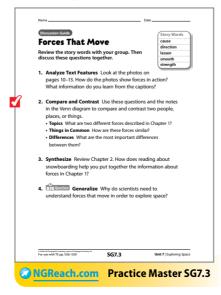
Ask students to compare and contrast two things or people described in the book they read.

If students have difficulty comparing and contrasting, refer them to their Venn diagram. Ask: What topics will you compare and contrast? What do the two topics have in common? How is each topic different?

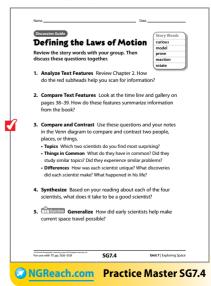
DURING READING



AFTER READING



AFTER READING



OL ON LEVEL 740L

Using Force and Motion by Glen Phelan

Build Comprehension

- Explain What are force, mass, and acceleration? How are they related? (A force is a push or pull; mass is the amount of matter in something; acceleration is how fast an object changes speed or direction. The more mass an object has, the more force is needed to change its motion.)
- Goal and Outcome What are two things people do to reduce friction? (Possible responses: wear streamlined equipment, add lubricants, wax skis, use wheels)

Writing Options

- **Photo Essay** Have students collect four or five photos that show motion, and invite them to write captions that describe the forces shown in each photo. Encourage students to choose a variety of motions, large and small.
- Lab Report Suggest that students try the Hands-On Science experiment on pages 28–29 and write a report that gives their results. Lab reports should describe what students did and explain what happened. Remind students to also answer each of the questions in the "Think" box on page 29.
- **Journal Entry** Invite students to describe the actions and reactions that take place during something they do every day.

AL ABOVE LEVEL 860L

The Science of Hitting a Home Run by Jim Whiting

Build Comprehension

- **Explain** How is energy transferred from the pitch to the hit in a home run? (The windup transfers energy from the pitcher to the ball. The swing transfers energy from the batter to the bat. The hit transfers energy from the bat to the ball.)
- **Draw Conclusions** How can studying science help baseball players improve? (Possible response: Understanding the science behind pitching and hitting can help players learn how to improve their skills and waste less energy.)

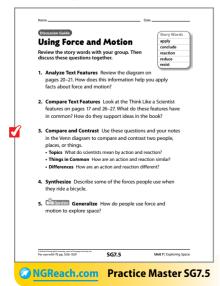
Writing Options

- **Sports Report** Have students write a news report about the science behind a recent sports game. They can find an article in the newspaper or recall an event they watched and write about how force and motion created an exciting play.
- **Story** What might a baseball think during a home run? Have students write a story about an exciting home run from the point of view of a baseball. Encourage students to include details about how the ball experiences the windup, traveling through the air, and the impact of the hit.
- Journal Entry Invite students to write about the forces involved in their favorite sport or activity.

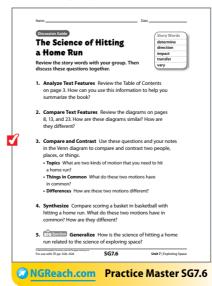


AFTER READING Form heterogeneous groups, and have each member of the group summarize his or her book. Then have groups use **Practice Master SG7.7** to guide discussion.

AFTER READING



AFTER READING



AFTER READING



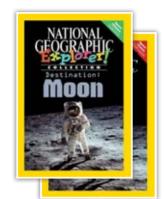
Week 2 Teaching Resources Science Articles

OBJECTIVES

Thematic Connection: Moon, Space, and Stars **Read and Comprehend Informational Text Use Details and Examples to Explain Text**

Destination: Moon by Beth Geiger

Summary *Destination: Moon describes* the Constellation Program, the plan NASA developed in the mid-2000s to send astronauts to the moon. It also tells how NASA planned to make the moon's environment livable for humans. In "Destination: Moon," author Beth Geiger explains that the first part of the plan was to get people to the moon by 2020. If approved, the plan would also include constructing a space base there and using that base to launch expeditions to Mars.



Rockets would carry parts for the base in pieces to the moon. The moon's South Pole, with warmer temperatures, might

provide the best environment for the base. "The Right Stuff" describes how NASA prepares for such missions. For example, people test-drive moon vehicles in deserts that resemble the moon's terrain.

Activate Prior Knowledge Display the front cover and ask: Why do people send astronauts to the moon? (Possible responses: to learn; to discover new life) Have students share what they know about the moon.

Build Background Tell students that an American first walked on the moon in 1969, and explain that 12 people all together have landed there. Recently, the United States developed a plan to build a space base on the moon. Use the illustration on page 8 to show the proposed base. Have students describe it. Explain that although this plan was cancelled, space exploration still continues.

PROGRAM RESOURCES

PRINT ONLY

Destination: Moon, Pioneer Edition Destination: Moon, Pathfinder Edition

TECHNOLOGY ONLY

My Vocabulary Notebook

COMMON CORE STANDARDS

Reading

Refer to Details and Examples When Explaining Text CC 4 Rinf 1 Read and Comprehend Informational Text

CC.4.Rinf.10

CC.4.L.6

Language

Acquire and Use Domain-Specific Words

Mini Lesson

Use Details and Examples to Explain Text

Explain: Details and examples in a text help prove something or help people understand new concepts. Point out that good readers know how to use details and examples when explaining the ideas in a text.

Read aloud the following text from page 4 of the Pioneer Edition of Destination: Moon as students listen.

Blastoff!

[NASA's plan] uses two spacecraft. They are *Orion* and *Altair*. First, a rocket will blast *Orion* into space. It will orbit Earth. A rocket will blast Altair into space, too. Altair will connect with Orion. Then, both ships will blast off to the moon together.

Text from Pioneer Edition

Then, think aloud to model how to use details to explain a text. I want to explain the idea that NASA's plan uses two spacecraft. So, I will use the following details that describe the plan:

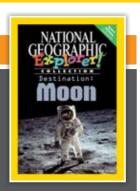
- First, a rocket will blast Orion into space.
- A rocket will blast Altair into space, too.
- Altair will connect with Orion.
- Then, both ships will blast off to the moon together.

Point out that authors may also include examples that help explain a text.

Have students use the details identified above to explain NASA's plan. (Possible response: Scientists at NASA plan to use two spacecraft to go to the moon. First, a rocket will blast Orion into space. Then, a rocket will blast Altair into space. Altair will connect with Orion, and both ships will go to the moon together.)

BL BELOW LEVEL 530L





Science Vocabulary

Use Wordwise on page 9 to introduce new words:

crater lunar rover orbit

Have students add new words to My Vocabulary Notebook.

Build Comprehension

After reading, use the Concept Check on page 12. Remind students to use details and examples to support each answer.

- 1. **Describe** What are the three main parts of NASA's Constellation Program? (The first part is to reach the moon by 2020 to study it. The second part is to build a base on the moon so astronauts can live there. The third part is to use the moon as a base to get to Mars.)
- 2. **Details** Why can't people live on the moon? (Possible response: There is no air and probably no water. Also, the surface of the moon can reach 253° Fahrenheit.)
- 3. **Contrast** How are Earth and the moon different? (Possible responses: Earth has air, but the moon does not. The moon is very hot or very cold, while Earth has comfortable temperatures. Earth is a lot bigger than the moon, and the days on Earth are a lot shorter than the days on the moon.)
- 4. **Use Details and Examples to Explain Text** Why is NASA planning to launch rockets from the moon to Mars? (Gravity on the moon is weaker than on Earth. So, rockets can lift off more easily from the moon than from Earth.)
- 5. **Evaluate** Would you want to explore the moon? Why or why not? (Possible response: I would like to explore the moon. I want to see what the moon looks like close up and discover whether people could ever really live there.)

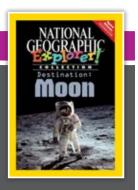
OL) ON LEVEL 620L

PATH

PATHFINDER EDITION

Lexile: 620L | GR: R

Content Connection: The Moon



Science Vocabulary

Use Wordwise on page 9 to introduce new words:

friction module orbit

Have students add new words to My Vocabulary Notebook.

Build Comprehension

After reading, use the Concept Check on page 12. Remind students to use details and examples to support each answer.

- 1. **Describe** What are the three main parts of NASA's Constellation Program? (Part 1—to reach the moon by 2020 to study it; Part 2—to build a base on the moon so astronauts can live there; Part 3—to use the moon as a base to get to Mars)
- 2. **Details** What conditions make living on the moon so difficult? (Possible responses: There is dangerous dust but no air and probably no water. People's muscles and bones weaken. Also, the surface of the moon, which has deep craters, can reach 253° Fahrenheit.)
- 3. **Contrast** How are Earth and the moon different? (Possible responses: Earth has air, but the moon does not. The moon is very hot or very cold, but Earth has comfortable temperatures. Earth is a lot bigger than the moon, and the days on Earth are a lot shorter than the days on the moon.)
- 4. **Use Details and Examples to Explain Text** Why is NASA planning to launch rockets from the moon to Mars? (Gravity on the moon is weaker than on Earth. So, rockets can lift off more easily from the moon than from Earth.)
- 5. **Evaluate** If you could invent something that would make life on the moon better, what would it be? (Possible response: I would invent something that produces air and water.)

Check & Reteach

OBJECTIVE: Use Details and Examples to Explain Text

Have partners take turns using details from page 6 to explain why it is difficult to land on the moon. (deep craters, rocky surface)
For students who cannot use details and examples to explain text, reteach with the paragraph describing lunar habitats on page 11. Say: *The paragraph says that astronauts will live in lunar habitats. What details and example explain the habitats?* Have students skim the text for details and the example. Make a class list to record them. (Details: light to carry; made in parts; people will eat, sleep, work there; Example: a little inflatable house) Guide students to refer to the details and example to explain lunar habitats.

Week 2 Teaching Resources Nonfiction

BL BELOW LEVEL

Lighter on the Moon

by Jeanne and Bradley Weaver

Content Connection
Gravity in Space

Expository Nonfiction | Pages: 16 | GR: N



BL BELOW LEVEL 590L

Exploring Spaceby Kate Boehm Jerome

Content Connection: **Space Exploration**

Expository Nonfiction | Pages: 32 | Lexile: 590L | GR: T



OBJECTIVES

Thematic Connection: Moon, Space, and Stars

Read and Comprehend Literature

Draw Conclusions to Comprehend Text

Explain Concepts in Texts

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.8, page SG35

Practice Master SG7.9, page SG36

Practice Master SG7.10, page SG37

Practice Master SG7.14, page SG41

TECHNOLOGY ONLY

Digital Library: Astronaut

SUGGESTED PACING

DAY 2 Introduce and read pages 1–9

DAY 3 Read pages 10–16 and discuss

DAY 4 Reteach or conduct intervention

DAY 5 Connect across texts

Summary Objects are lighter on the moon because of gravity. Every object has gravity, or a force that pulls. On Earth, gravity keeps us on the ground and determines our weight. The amount of gravity an object has depends on its size. The moon is smaller than Earth, so it has less gravity. In fact, gravity on Earth is six times greater than gravity on the moon. Thus, to find out how much you would weigh on the moon, divide your weight on Earth by 6. For example, in his spacesuit, Neil Armstrong weighed about 360 pounds on Earth, but only about 60 pounds on the moon.

Activate Prior Knowledge Ask: How do you find out how much you weigh? (Possible response: use a scale)

Build Background Display the **Digital Library** photo of an astronaut floating in space. Say: On Earth, gravity keeps us on the ground, but there is no gravity in space. There is gravity on the moon, but not very much compared to on Earth.

Story Words Use **Practice Master SG7.8** to extend vocabulary.

determine, page 7

amount, page 8 compare, page 8

farther, page 10 object, page 8

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.8, page SG35

Practice Master SG7.9, page SG36

Practice Master SG7.11, page SG38

Practice Master SG7.14, page SG41

TECHNOLOGY ONLY

Digital Library: The Earth and Moon

SUGGESTED PACING

DAY 2 Introduce and read pages 1–12

DAY 3 Read pages 13–23

DAY 4 Read pages 24–32 and discuss

DAY 5 Connect across texts

Summary Our solar system has two kinds of planets. The inner planets—Mercury, Venus, Earth, and Mars—are solid and rocky. The outer planets—Jupiter, Saturn, Uranus, and Neptune—are made up mostly of gases. Asteroids, meteoroids, and comets also orbit the sun, which is the closest star. Our solar system is one tiny part of the Milky Way Galaxy. To explore space, scientists first launched satellites and then made multistage rockets. Today, a permanent space station relies on both astronauts and robonauts.

Activate Prior Knowledge Ask: What changes do you notice when you look at the sky on different nights? (Possible responses: The phases of the moon change. The stars change positions.)

Build Background Use the photo of Earth and the moon from the **Digital Library**. Say: *The moon is 384,000 km (238,900 miles) from Earth. It orbits, or moves around, Earth in about 27 days.*

Story Words Use **Practice Master SG7.8** to extend vocabulary.

deliver, page 23

accomplish, page 16 advance, page 14

permanent, page 23 revolve, page 7

Stars Galaxies

OL ON LEVEL 720L

The International Space Station by Franklyn M. Branley

Content Connection: Space Station

Expository Nonfiction | Pages: 32 | Lexile: 720L | GR: Q



COMMON CORE STANDARDS

Reading

Read and Comprehend Literature CC.4.Rlit.10 Refer to Details and Examples When Explaining Text CC.4.Rinf.1 CC.4.Rinf.3 **Explain Concepts** Summarize CC.4.Rinf.2

PROGRAM RESOURCES

PRINT & TECHNOLOGY

TECHNOLOGY ONLY

Digital Library: Satellite

Practice Master SG7.8, page SG35

Practice Master SG7.9, page SG36

Practice Master SG7.12, page SG39 Practice Master SG7.14, page SG41

SUGGESTED PACING

DAY 2 Introduce and read pages 1–13

DAY 3 Read pages 14–25

DAY 4 Read pages 26–32 and discuss

DAY 5 Connect across texts

Summary Twenty countries worked together to create the International Space Station, a structure that orbits Earth. Parts are built on Earth and then attached in space. Solar cells collect sunlight and turn it into energy for the research station. Astronauts stay healthy on board by getting exercise and eating well, including fresh food brought by shuttle. Space suits keep astronauts safe outside. An escape vehicle is ready in case of emergency.

Activate Prior Knowledge Ask: When have you been on a team with people from other places?

Build Background Display the photo of a satellite from the **Digital Library**. Say: A satellite is a human-made object that orbits Earth. The International Space Station orbits Earth and is large enough to house several scientists.

Story Words Use **Practice Master SG7.8** to extend vocabulary.

intense, page 19

international, title

program, page 2

structure, page 16 vehicle, page 12 AL ABOVE LEVEL 830L

Stars and Galaxies

by Ellen Fried

Content Connection:

Space

Expository Nonfiction | Pages: 32 | Lexile: 830L | GR: T



Write Over Shorter Time for Specific Tasks CC.4.W.10

Speaking and Listening

Draw on Preparation to Explore Ideas CC.4.SL.1.a

Language and Vocabulary

Acquire and Use Academic Words CC.4.L.6

PRINT & TECHNOLOGY

PROGRAM RESOURCES

Practice Master SG7.8, page SG35

Practice Master SG7.9, page SG36

Practice Master SG7.13, page SG40 Practice Master SG7.14, page SG41

TECHNOLOGY ONLY

Digital Library: Milky Way

SUGGESTED PACING

DAY 2 Introduce and read pages 1–13

DAY 3 Read pages 14-23

DAY 4 Read pages 24–32 and discuss

DAY 5 Connect across texts

Summary Earth's sun is one star out of billions in the universe. Most stars go through three main life stages. Material in a huge cloud of gas and dust forms a ball, which heats up and releases heat and light. The star shines for billions of years and finally runs out of hydrogen and burns out slowly. Some large stars end in huge explosions called supernovas. Galaxies are groups of billions of stars and are classified as spiral (like the Milky Way), elliptical, or irregular.

Activate Prior Knowledge Ask: What do you see when you look up at a night sky?

Build Background Display the photo of the Milky Way from the **Digital Library**. Say: A galaxy is a huge collection of stars and other material, held together by gravity. All of the stars you can see using only your eyes are part of the Milky Way galaxy. Scientists use telescopes and other tools to learn about more distant galaxies.

Story Words Use **Practice Master SG7.8** to extend vocabulary.

contract, page 12 expand, page 13

theory, page 19 vast, page 7 prove, page 16

Week 2 Teaching Resources Nonfiction

BL BELOW LEVEL

Lighter on the Moon by Jeanne and Bradley Weaver

Build Comprehension

- Explain Why do things weigh less on the moon than they do on Earth? Explain. (Things weigh less on the moon because the moon has less gravity than Earth. It has less gravity because it is smaller than Earth, and gravity is determined by the size of an object.)
- **Draw Conclusions** Imagine there was no gravity on Earth. What would happen if you threw a ball into the air? (Possible responses: It would float; it wouldn't come back down.)

Writing Options

- **Chart** Have students make a chart of weights of five objects on Earth and on the moon. Encourage them to include people, pets, and other objects, such as cars. They can use the Internet or reference sources to find weights.
- **Travel Brochure** Have students write a travel brochure for people in the future who are visiting the moon. The brochure should explain what it will be like to walk on the moon and how visitors can figure out how much they will weigh there.
- **Journal Entry** Invite students to write about what they would like to do if they were on the moon. Encourage them to describe actions that would be difficult or impossible on Earth.

BL BELOW LEVEL 590L

Exploring Spaceby Kate Boehm Jerome

Build Comprehension

- **Goal and Outcome** What steps helped Americans reach the goal of landing on the moon in 1969? (Possible responses: launching satellites; designing multistage rockets; understanding conditions in space)
- **Make Judgments** *Is exploring space important for people who are not astronauts?* (Possible response: Yes, the discoveries benefit everyone. For example, technology created for space exploration also helps people on Earth.)

Writing Options

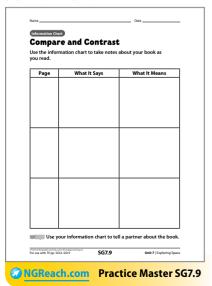
- **Thank-You Note** Have students write a thank-you note to an astronaut for his or her work. Encourage students to tell why the astronaut's achievements are important.
- **Puzzle** Have students write sentences using Glossary terms (page 31). Ask students to copy the sentences, leaving a blank space for each term. Students can then read aloud their sentences and have others in their group say the missing term.
- **Journal Entry** Invite students to share the fact about space that they found most surprising or interesting and tell why.

Check & Reteach

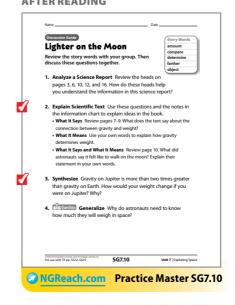
Ask students to compare and contrast two things or people described in the book they read.

If students have difficulty comparing and contrasting, refer them to their Venn diagram. Ask: What topics will you compare and contrast? What do the two topics have in common? How is each topic different?

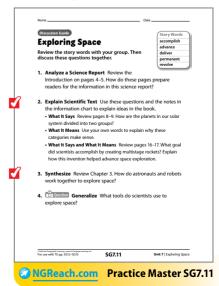
DURING READING



AFTER READING



AFTER READING



OL ON LEVEL 720L

The International Space Station by Franklyn M. Branley

Build Comprehension

- Form Opinions Could the International Space Station have been created by just one country? Why or why not? (Possible response: Because it is a large, complicated program, it probably required the help of many countries.)
- Make Comparisons How is the International Space Station different from other space programs? (Possible responses: It is a permanent structure; astronauts are in space for three to six months; it was created by 20 countries working together.)

Writing Options

- Dialogue Have students write a dialogue between two or more astronauts on the International Space Station. Students can choose a specific location on the Station and have astronauts describe what they do there.
- **News Report** Suggest that students write a short news report about the arrival of a new part at the International Space Station.
- Journal Entry Invite students to tell whether they would like to become astronauts on the International Space Station. Encourage them to explain which activities they would enjoy or find challenging.

AL ABOVE LEVEL 830L

Stars and Galaxies by Ellen Fried

Build Comprehension

- **Form Opinions** Do you think there are other solar systems with planets? Why or why not? (Possible response: There are billions and billions of other stars, so it is probable that some of them have planets similar to those in our solar system.)
- **Draw Conclusions** *Why are astronomers also historians?* (Possible response: The light we see from space has traveled for many, many years, so astronomers who study light are actually looking at the past.)

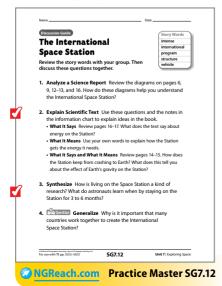
Writing Options

- Expanded Definition Have students choose a Glossary term (page 31) and write an expanded definition that includes examples and explanations. Encourage students to share the definitions with students who have not yet read the book.
- **Poem** Invite students to write a short poem about stars, using rhythm, rhyme (words that end with the same sounds), and alliteration (words that begin with the same sound).
- Journal Entry Invite students to write about how they feel when they think about the vast distances of outer space.

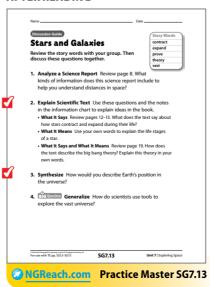


AFTER READING Form heterogeneous groups, and have each member of the group summarize his or her book. Then have groups use **Practice Master SG7.14** to guide discussion.

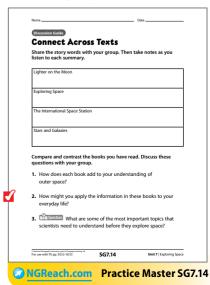
AFTER READING



AFTER READING



AFTER READING



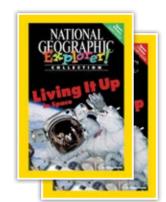
Week 3 Teaching Resources Science Articles

OBJECTIVES

Thematic Connection: Exploring Space Read and Comprehend Informational Text Comprehend Visual Information

Living It Up in Space by Nancy Finton

Summary Living It Up in Space explores how astronauts live and work in the International Space Station (ISS), and how life in space and on Earth differ. The main article describes how 16 countries, including the United States, are working together to build the ISS. Astronauts on the station do science experiments to learn more about both space and Earth. Because of the low gravity, astronauts sleep in sleeping bags hanging from walls and take sponge baths instead of



showers. They eat food that is specially packaged.

Two diagrams follow: "International Space Station," showing the parts of the station, and "Suited for Spacewalking," identifying the parts of a space suit. In "Out of This World!" students learn that astronauts are skilled in math and science and can work as a team. They also discover why fire is the biggest danger on the ISS—there is no escape!

Activate Prior Knowledge Display the front cover and ask: What do astronauts do? (Possible responses: explore space; walk on the moon) Why do they wear spacesuits? (They need the suits for air and safety.)

Build Background Explain that the United States and 15 other countries are building the International Space Station—a spacecraft where astronauts work and live. Use pages 6–7 to discuss the Habitation Module. Read aloud its labels. Have students point to the three areas and describe the uses. Point out how the diagram helps describe life in space.

PROGRAM RESOURCES

PRINT ONLY

Living It Up in Space, Pioneer Edition Living It Up in Space, Pathfinder Edition

TECHNOLOGY ONLY

My Vocabulary Notebook

COMMON CORE STANDARDS

Reading

Interpret Information Presented Visually CC 4 Rinf 7 Read and Comprehend Informational Text CC.4.Rinf.10

Language

Acquire and Use Domain-Specific Words CC.4.L.6

Mini Lesson

Comprehend Visual Information

Explain: Often, scientific texts present information in a visual way to explain key points in the text and to add information. Such visual information often appears in a diagram. Point out that good readers know how to interpret visual information presented in texts.

Read aloud the following text from page 2 of the Pioneer Edition of Living It Up in Space as students listen.

Today, astronauts are working on the International Space Station, or ISS. It is a huge spacecraft. It is the astronauts' home away from Earth.

Text from Pioneer Edition

Then, think aloud to model how to comprehend visual information. In the text, the author says that the ISS is a huge spacecraft. I will interpret the information in the diagram on pages 6–7 to help me understand just how big the spacecraft is. I will read the labels and the corresponding text.

- The spacecraft has four different modules: two research modules, one service module, and one control module.
- One more module, the Habitation Module, may be added.
- The station has trusses, beams that hold up parts of the ISS.
- The ISS also carries a smaller spacecraft, or return vehicle.

All this information in the diagram helps me understand how immense the space station is.

Have students explain how the visual information identified above adds to their understanding of the ISS. (Possible response: It tells me the spacecraft is made up of many modules and that it is large enough to carry a return vehicle. Also it needs trusses, or beams, to hold up pieces of it. So, now I see just how gigantic the ISS really is.)

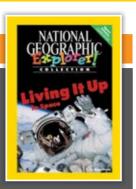
BL BELOW LEVEL



PIONEER EDITION

GR: P

Content Connection: Astronauts



Science Vocabulary

Use Wordwise on page 5 to introduce new words:

astronaut experiment gravity International Space Station

Have students add new words to My Vocabulary Notebook.

Build Comprehension

After reading, use the Concept Check on page 12. Remind students to use details and examples to support each answer.

- Comprehend Visual Information What is the International Space Station (ISS)? (It is a huge spacecraft where astronauts live and work. It has different modules and mechanical arms.)
- 2. **Cause/Effect** Why do things float in space? (Things float because there is not much gravity in space.)
- 3. **Explain** How do astronauts sleep on the ISS? (They strap themselves into sleeping bags on the walls of the spacecraft.) Why? (If they didn't do this, they would float away because there is not much gravity on the ISS.)
- 4. **Details** Why do astronauts reuse water? (They reuse water because it must come from Earth and cannot be wasted.)
- 5. **Contrast** How is living in space different from living on Earth? (Possible responses: Because of the lack of gravity in space, astronauts float rather than walk around the ISS. They have to sleep in sleeping bags strapped to the walls instead of in beds. Because the food has to come from Earth, astronauts cannot eat fresh food every day like on Earth. Also, the astronauts must exercise a lot because their muscles get soft in low gravity.)

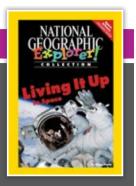
OL ON LEVEL 800L



PATHFINDER EDITION

Lexile: 800L | GR: R

Content Connection: Astronauts



Science Vocabulary

Use Wordwise on page 5 to introduce new words:

atmosphere gravity microbe microgravity module orbiting

Have students add new words to My Vocabulary Notebook.

Build Comprehension

After reading, use the Concept Check on page 12. Remind students to use details and examples to support each answer.

- 1. **Comprehend Visual Information** How is the International Space Station a team effort? (The United States and 15 other countries are working together to build the ISS. For example, Russia has built the service and control modules, and Japan has built a research module.)
- 2. **Cause/Effect** What is microgravity? (It is a condition in which the effects of gravity are reduced.) How does it affect astronauts? (Everything floats and must be strapped down.)
- 3. **Compare** How does sleeping in space compare to sleeping on Earth? (In space, astronauts don't sleep in a bed like people do on Earth. Astronauts can sleep while floating, but to make sure they don't bump into the spacecraft's controls, they sleep in sleeping bags that hang from the walls.)
- 4. **Make Inferences** What training and skills do astronauts have? (Astronauts are trained to live in microgravity and to do science experiments. They must be good at math and science and be able to work well with others.)
- 5. **Explain** Why is living in space dangerous? (Possible response: It is dangerous because if a fire breaks out on the ISS, astronauts have nowhere to go to escape the flames.)

Check & Reteach

OBJECTIVE: Comprehend Visual Information

Have partners use the diagram on pages 6–7 to explain where astronauts do science experiments. (The ISS has two research modules.) Have them explain how the information adds to their understanding. (I see there are specific places for research.)

For students who cannot comprehend visual information, reteach with the diagram on page 8. Remind students that the text says that a space suit keeps an astronaut alive outside of the ISS. Say: *The diagram shows the parts of a space suit. What information tells how the suit helps keep an astronaut safe?* Have students read the labels to identify the parts that provide safety. Make a class list. (headlights, layers of material, tethers) Have students tell how this information adds to their understanding. (It tells me an astronaut can see in space, stay warm, and not float away.)

Week 3 Teaching Resources

BL BELOW LEVEL 530L

Richie's Rocket by Joan Anderson

Content Connection: **Space Exploration**

Science Fiction | Pages: 32 | Lexile: 530L | GR: N



BL BELOW LEVEL 580L

Stanley in Space PART 1by Jeff Brown

Content Connection: **Space Exploration**

Fantasy | Pages: 128 | Lexile: 580L | GR: N



OBJECTIVES

Thematic Connection: Exploring Space

Read and Comprehend Literature

Form Generalizations to Comprehend Literature

Comprehend Plot

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.15, page SG42

Practice Master SG7.16, page SG43

Practice Master SG7.17, page SG44

Practice Master SG7.21, page SG48

TECHNOLOGY ONLY

Digital Library: Shuttle in Space

SUGGESTED PACING

DAY 2 Introduce and read pages 1–14

DAY 3 Read pages 15–32 and discuss

DAY 4 Reteach or conduct intervention

DAY 5 Connect across texts

Summary A trip to the planetarium inspires Richie to build a rocket on the roof of his apartment building. One summer night, he launches his cardboard ship into space. The ride is exciting, though weightlessness takes some getting used to. A passing astronaut agrees to tow Richie's rocket to the moon. After landing, he leaves the rocket and explores the lunar landscape. Weighing less on the moon makes moving around tricky, but Richie is soon turning somersaults across the rocky mounds. He writes his name in moon dust before the astronaut's ship returns to bring Richie back home.

Activate Prior Knowledge Say: When have you used your imagination to think about a faraway place?

Build Background Display **Digital Library** photo of the Space Shuttle. Say: The Space Shuttle is one kind of rocket. Rockets are complicated machines with a lot of parts. Your imagination can help you think about what it would be like to ride in a rocket.

Story Words Use **Practice Master SG7.15** to extend vocabulary.

curious, page 6

accomplish, page 30 complicated, page 6

gradually, page 22 pretend, page 8

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.15, page SG42

Practice Master SG7.16, page SG43

Practice Master SG7.18, page SG45

Practice Master SG7.21, page SG48

TECHNOLOGY ONLY

Digital Library: Planets

SUGGESTED PACING

DAY 2 Introduce and read pages 1–19

DAY 3 Read pages 20–41

DAY 4 Read pages 42–52 and discuss

DAY 5 Connect across texts

PART 2:

See pages SG24–SG27.

Summary When the President of the United States receives a message from the planet Tyrra asking for a meeting, he sends Stanley Lambchop and his family. They ride the *Star Scout* to Tyrra, where they find out the Tyrrans ready to attack. Luckily, Tyrrans are only three inches tall, and they quickly agree to a truce. The Tyrrans explain that a failed experiment has destroyed their food supply for a year. Stanley brings the Tyrrans to Earth, so they will have food while Tyrra recovers.

Activate Prior Knowledge Ask: When has your family had to solve a problem when taking a trip away from home?

Build Background Display the drawing of planets from the **Digital Library**. Say: Some science fiction describes aliens, imagined beings from other planets. Writers use imagination to consider how aliens might be similar to or different from humans.

Story Words Use **Practice Master SG7.15** to extend vocabulary.

appear, page 5 extraordinary, page 31 proceed, page 31

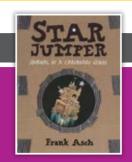
reassure, page 16 serious, page 5

OL ON LEVEL 640L

Star Jumper PART 1 by Frank Asch

Content Connection: Spaceships

Science Fiction | Pages: 128 | Lexile: 640L | GR: P



COMMON CORE STANDARDS

Reading

Refer to Details and Examples When Explaining Literature	CC.4.Rlit.1
Summarize	CC.4.Rlit.2
Describe a Character	CC.4.Rlit.3
Read and Comprehend Literature	CC.4.Rlit.10
Tell a Story	CC.4.SL.4

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.15, page SG42 Practice Master SG7.16, page SG43

Practice Master SG7.19, page SG46 Practice Master SG7.21, page SG48 **TECHNOLOGY ONLY**

Digital Library: Astronaut in Space Suit

SUGGESTED PACING

DAY 2 Introduce and read pages 1–21

DAY 3 Read pages 22-49

DAY 4 Read pages 50-69 and discuss

DAY 5 Connect across texts

PART 2:

See pages SG24-SG27.

Summary To get away from his pesky brother Jonathan, Alex builds the spaceship Star Jumper out of cardboard, tape, and household objects. When Jonathan finds out, Alex builds a Micro-Blaster that shrinks his nosy brother. Once Jonathan is back to normal size, Alex uses a Duplicator to make copies of himself, but Jonathan does the same thing. Alex then uses a Disappearing Device to get rid of all the copies. Star Jumper is destroyed in the process, but Alex vows to rebuild it.

Activate Prior Knowledge Ask: What is something you know that you are good at doing? How do you know?

Build Background Display photo of an astronaut from the **Digital Library**. Say: There is no oxygen in space. Astronauts wear suits that pump in oxygen to breathe.

Story Words Use **Practice Master SG7.15** to extend vocabulary.

accomplishment, page 52 delay, page 57 effective, page 14

install, page 15 solution, page 40

AL ABOVE LEVEL 900L

The Space Mission Adventure PART 1 by Sharon M. Draper

Content Connection: Space Camp

Realistic Fiction | Pages: 128 | Lexile: 900L | GR: U



Writing

Write Over Shorter Time for Specific Tasks CC.4.W.10

Speaking and Listening

Draw on Preparation to Explore Ideas CC.4.SL.1.a

Language and Vocabulary

Acquire and Use Academic Words CC.4.L.6

PROGRAM RESOURCES

PRINT & TECHNOLOGY

TECHNOLOGY ONLY

Practice Master SG7.15, page SG42

Practice Master SG7.16, page SG43

Practice Master SG7.20, page SG47

Practice Master SG7.21, page SG48

Digital Library: Multi-Axis Trainer

SUGGESTED PACING

DAY 2 Introduce and read pages 1–9

DAY 3 Read pages 10-33

DAY 4 Read pages 34–49 and discuss

DAY 5 Connect across texts

PART 2:

See pages SG24-SG27.

Summary Ziggy and his club, the Black Dinosaurs, visit Space Camp where they learn how astronauts train to explore outer space. To prepare for a simulated space mission, Ziggy rides a multi-axis trainer that shows how human bodies react to riding in vehicles where gravity is limited. On the artificial moon, Ziggy finds a mysterious green object. Is it from outer space? The team completes its mission and then meets a real astronaut. Ziggy shows her the green object, which turns out to be the stone from a decorative pin that she had lost.

Activate Prior Knowledge Ask: What kinds of things do people do at camp? How can camps combine learning with fun?

Build Background Display the photo of a multi-axis trainer from the **Digital Library**. Say: Many tools help astronauts prepare for space travel. A multi-axis trainer has a seat that moves in many directions to show how the body reacts to riding in a space vehicle.

Story Words Use **Practice Master SG7.15** to extend vocabulary.

focus, page 6 member, page 22 possibility, page 8

realistic, page 12 suspend, page 44

Week 3 Teaching Resources

BL BELOW LEVEL 530L

Richie's Rocketby Joan Anderson

Build Comprehension

- **Draw Conclusions** What clues tell you that Richie's story could not happen in real life? (Possible response: Richie's cardboard rocket could not really fly into space; he would not be safe on the moon without a space suit.)
- Character's Traits Is Richie a realistic character? Why or why not? (Possible response: Yes, Richie is realistic. Even though he does incredible things, his reactions are realistic. His adventures on the moon are probably a dream.)

Writing Options

- Interview Questions Have students list questions they
 would like to ask Richie. Ask students to use as many of these
 words as possible: who, what, where, when, why, how.
- **Travel Diary** Have students write a travel diary entry from Richie's point of view.
- Journal Entry Invite students to write about something they
 once pretended to do. Ask them to include details about how
 they used their imagination to make the game seem real.

BL BELOW LEVEL 580L

Stanley in Space PART 1 by Jeff Brown

Build Comprehension

- Analyze Characters Why are the Lambchops unusual astronauts? (Possible response: They are an ordinary family who treat a trip to space like any other trip or vacation.)
- **Draw Conclusions** Why do the Tyrrans decide to make peace with Stanley and his family? (They found out that humans were much bigger than they were and realized they could not win.)

Writing Options

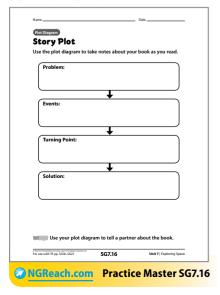
- Character List Have students list the main characters and add brief descriptions. Encourage students to explain the character's function and what the character is like.
- **E-Mail** Have students write an e-mail from the point of view of Stanley to a friend back home. Encourage students to answer each other's e-mails from the point of view of the friend.
- **Journal Entry** Invite students to predict what will happen to Stanley and his family on Tyrra. Encourage them to describe details from the book that support their predictions.

Check & Reteach

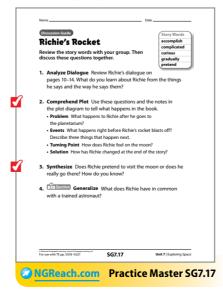
Ask students to retell the most important events in the plot of the book they read.

If students have difficulty identifying plot elements, refer them to their plot diagram. Ask: What problem does the main character face? What events happen as the character tries to solve this problem?

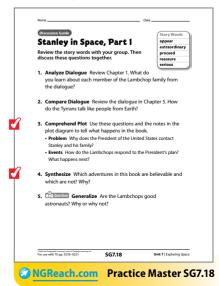
DURING READING



AFTER READING



AFTER READING



OL ON LEVEL 640L

Star Jumper PART 1 by Frank Asch

Build Comprehension

- **Draw Conclusions** How can you tell that Alex has spent a lot of time studying space exploration? (Possible response: Alex's inventions, such as his radar dish and his oxygen generator, are based on real space tools. He knows about things like Van Allen belts.)
- Form Opinions Does Alex deserve to be called a "cardboard" *aenius*"? (Possible response: He deserves the name because of his inventions and his imagination.)

Writing Options

- **Description** Have students describe one of Alex's inventions and tell what it shows about him as a character.
- **Blog Post** Ask students to write a blog post as Alex that tells how to make a useful invention for exploring space. Students can describe an invention from the book or create their own. Remind them to state the purpose of the invention.
- Journal Entry Invite students to predict what will happen to Alex when he finishes building Star Jumper.

AL ABOVE LEVEL 900L

The Space Mission Adventure PART 1 by Sharon M. Draper

Build Comprehension

- Character Traits What traits does Ziggy have that might make him a good astronaut? (Possible response: He is curious about things; he is energetic and a good team member; he is a dreamer, which can help an astronaut achieve a goal.)
- Form Generalizations How might going to Space Camp be useful even for students who do not become astronauts? (Possible response: The camp helps students work together on teams, which they will do in many situations.)

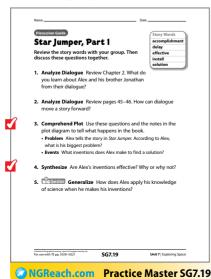
Writing Options

- Travel Brochure Have students write a travel brochure for Space Camp that briefly describes what campers do and what missions are like.
- **Blog Post** Have students create a blog post from one of the Black Dinosaurs, using first-person point of view. Encourage them to describe one event, such as riding the multi-axis trainer.
- Journal Entry Invite students to predict how the Black Dinosaurs will solve the mystery of the green object Ziggy that found on the surface of the artificial moon.

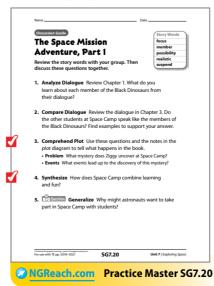


AFTER READING Form heterogeneous groups, and have each member of the group summarize his or her book. Then have groups use **Practice Master SG7.21** to guide discussion.

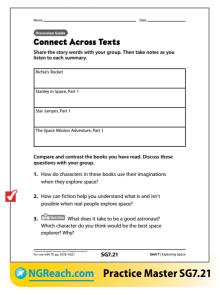
AFTER READING



AFTER READING



AFTER READING



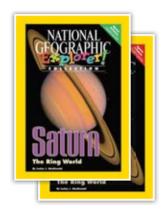
Week 4 Teaching Resources Science Articles

OBJECTIVES

Thematic Connection: Exploring Space Read and Comprehend Informational Text Explain Ideas in Text

Saturn: The Ring World by Lesley J. MacDonald

Summary *Saturn: The Ring World* explores the mysteries of Saturn, our solar system's second largest planet. It also looks at how scientific study of Saturn has changed over time. "Ring World" describes the spacecraft Cassini's trip to Saturn. It has helped scientists study Saturn, and they now believe that Saturn has more than 1000 rings and 33 moons. They also think life may exist on the moon Titan. A small spacecraft found what may be lakes there. "What's in a Name?" introduces two scientists who studied Saturn in the 1600s.



Christiaan Huygens was the first to discover Saturn's rings. Gian Domenico Cassini was the first to observe four of Saturn's moons. Both men used simple telescopes. "Changing How We See Space" describes the powerful telescopes used today to explore deep space. They reveal new facts that add to our knowledge of space.

Activate Prior Knowledge Display the front cover and ask: What is Saturn? (a planet) Why might people study it? (Possible responses: to find out if life exists there; to learn more about it; to learn about space)

Build Background Explain that for hundreds of years, people have been trying to unlock the secrets of Saturn, the second largest planet in our solar system. Use page 6 to explain that Saturn is surrounded by thousands of rings and has more than 30 moons. Have students identify the moons.

PROGRAM RESOURCES

PRINT ONLY

Saturn: The Ring World, Pioneer Edition Saturn: The Ring World, Pathfinder Edition

TECHNOLOGY ONLY

My Vocabulary Notebook

Interactive Whiteboard Lesson-Saturn's Wildest Weather

COMMON CORE STANDARDS

Reading

CC.4.Rinf.3 **Explain Ideas** Read and Comprehend Informational Text CC.4.Rinf.10

Language

Acquire and Use Domain-Specific Words CC.4.L.6

Mini Lesson

Explain Ideas in Text

Explain: Scientific texts often contain difficult ideas and concepts. An author usually includes specific information to explain them. Point out that good readers know how to explain ideas using specific information in a text.

Read aloud the following text from page 4 of the Pioneer Edition of Saturn: The Ring World as students listen.

Gas Giant

Saturn is made of gases. The gases may look calm. But they are not. Tornadoes and other storms whip around Saturn. Some winds blow a thousand miles an hour!

Text from Pioneer Edition

Then, think aloud to model how to explain ideas in text. *In this* text, the author says the gases that make up Saturn look calm but are not. The author then gives specific information to explain this

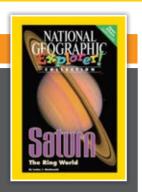
- Tornadoes and other storms whip around Saturn.
- Some winds blow a thousand miles an hour.

So, I can use this specific information to explain the idea that the gases on Saturn only look calm. In reality, they are wild.

Have students use the specific information above to explain the idea that the gases that make up Saturn look calm but are not. (Possible response: The gases that make up Saturn might look calm, but they really are not. There are big storms like tornadoes on Saturn. Also, winds can reach a thousand miles per hour. So, with big storms and winds, Saturn is anything but calm.)

BL BELOW LEVEL 480L





Science Vocabulary

Use Wordwise on page 7 to introduce new words:

atmosphere moon orbit planet spacecraft

Have students add new words to My Vocabulary Notebook.

Build Comprehension

After reading, use the Concept Check on page 12. Remind students to use details and examples to support each answer.

- 1. **Describe** How would you describe the planet Saturn? (Possible response: Saturn is the second largest planet in our solar system. It is made of stormy gases and has winds that can blow a thousand miles an hour. Thousands of rings and more than 30 moons surround Saturn.)
- 2. **Details** What are Saturn's rings made of? (They are made of bits of ice and rock that is covered with ice.)
- 3. **Main Idea** Why was the *Huygens* spacecraft sent to Titan? (It was sent to study Titan's surface and atmosphere so that people would know whether there is life on Titan.)
- 4. **Explain** Who were Cassini and Huygens? (They were scientists living in the 1600s who studied Saturn with simple telescopes. Huygens was the first to see Saturn's rings. Cassini discovered that Saturn has moons and that its rings are made of rock.)
- 5. **Explain Ideas in Text** How do scientists study Saturn? (Scientists use powerful telescopes. Some are placed on tops of mountains where the sky is clear. Some are sent into space or orbit Earth where the view of the planets is clear. These telescopes show many details that cannot be seen from Earth.)

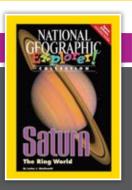
OL ON LEVEL 630L

PATHFIN

PATHFINDER EDITION

Lexile: 630L | GR: Q

Content Connection: Planets



Science Vocabulary

Use Wordwise on page 7 to introduce new words:

atmosphere moon moonlet orbit planet spacecraft

Have students add new words to My Vocabulary Notebook.

Build Comprehension

After reading, use the Concept Check on page 12. Remind students to use details and examples to support each answer.

- 1. **Details** How many moons do people now think Saturn has? (People think that Saturn has more than 30 moons.)
- 2. **Compare/Contrast** How does Titan compare to Saturn's other moons? (Titan is the second largest moon. It might have lakes filled with what could be liquid methane. The air is mostly nitrogen gas. Like all the moons, it orbits Saturn.)
- 3. **Describe** What is the surface of Saturn like? (Saturn's surface is made of gases. A small solid core may be buried below the clouds of gas.) How do we know? (The robot spacecraft *Cassini* has taken hundreds of pictures. Scientists study the pictures to learn more about Saturn.)
- 4. **Details** What are Saturn's rings made of? (They are made of chunks of ice and rock that is covered with ice.)
- 5. **Explain Ideas in Text** How do scientists study Saturn and other objects in space? (Scientists use powerful telescopes. Some sit on tops of mountains where the sky is clear. Some are loaded onto spacecraft with cameras and sent into space or to orbit Earth. These telescopes show scientists many details that they cannot see from Earth.)

Check & Reteach

OBJECTIVE: Explain Ideas in Text

Have partners take turns explaining the idea on page 6 (Pathfinder)/page 7 (Pioneer) that Titan is Saturn's most amazing moon. (Possible response: Scientists think life may exist on Titan. A spacecraft discovered rivers there. These things make Titan amazing.)

For students who cannot explain events in text, reteach with "Filling the Gap" on page 9. Have students scan the text. Say: *The text says that Cassini is best known for his studies of Saturn. The author gives specific information that explains this idea.* Make a class list of the specific information. Have students use it to explain the idea that the scientist is best known for studying Saturn. (Possible response: Cassini was the first person to discover that Saturn has moons. He also learned that Saturn's rings are made of rock and that there is a gap in the rings. Because of these amazing discoveries, Cassini is best remembered for his studies of Saturn.)

Week 4 Teaching Resources

BL BELOW LEVEL

Moonshot by Brian Floca

Content Connection **Lunar Exploration**

Narrative Nonfiction | Pages: 48

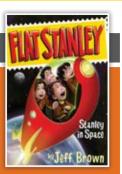


BL BELOW LEVEL 580L

Stanley in Space PART 2 by Jeff Brown

Content Connection: **Space Exploration**

Fantasy | Pages: 76 | Lexile: 580L | GR: N



OBJECTIVES

Thematic Connection: Exploring Space

Read and Comprehend Literature

Form Generalizations to Comprehend Literature

Describe Characters and Events

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.22, page SG49

Practice Master SG7.23, page SG50

Practice Master SG7.24, page SG51

Practice Master SG7.28, page SG55

TECHNOLOGY ONLY

Digital Library: Eagle Lunar

Module

SUGGESTED PACING

DAY 2 Introduce and read pages 1–21

DAY 3 Read pages 22–48 and discuss

DAY 4 Reteach or conduct intervention

DAY 5 Connect across texts

Summary Free verse tells the story of the Apollo 11 moon landing. In 1969, Neil Armstrong, Michael Collins, and Buzz Aldrin wear heavy spacesuits and get into the *Columbia*, a small spaceship atop the *Saturn*. The rocket launches and roars into space. As it flies, it drops stages in order to lighten the load. Weightless in the *Columbia*, the astronauts eat, sleep, and steer the ship. Aldrin and Armstrong ride in *Eagle* to the moon. It lands and the two men walk where no person has walked before. They send radio signals to Collins and to people listening on Earth. After exploring the moon, they return to the *Columbia* and all three men return safely home.

Activate Prior Knowledge Ask: What does the moon look like when it is full?

Build Background Display **Digital Library** photo of the Eagle Lunar Module. Say: *Scientists designed special spaceships to reach the moon. A larger rocket called the* Saturn *pushed two smaller rockets, the* Columbia *and the* Eagle, *into space.*

Story Words Use **Practice Master SG7.22** to extend vocabulary.

magnificent, page 7

awkward, page 7 beneath, page 34

massive, page 9 release, page 14

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.22, page SG49

Practice Master SG7.23, page SG50

Practice Master SG7.25, page SG52 Practice Master SG7.28, page SG55 TECHNOLOGY ONLY

Digital Library: Magnifying Lens;

Scale

SUGGESTED PACING

DAY 2 Introduce and read pages 53–72

DAY 3 Read pages 73–89

DAY 4 Read pages 90–128 and discuss

DAY 5 Connect across texts

PART 1:

See pages SG18–SG21.

Review Part 1 For a complete summary of *Stanley in Space*, see page SG18. Remind students to complete the plot diagram by noting important events, the turning point, and the solution to the problem. To review plot events, ask: *Why did Stanley Lambchop and his family go into space?* (The President asked them to go to Tyrra because they were experienced with strange adventures.) *What do the Lambchops find out about the people of Tyrra when they get there?* (Tyrrans are just like humans, but much smaller—about three inches tall.)

Activate Prior Knowledge Ask: What tools have you used when working on science projects? (Possible responses: thermometers, telescopes, microscopes, rulers, scales, test tubes)

Build Background Use the photos of a magnifying lens and a scale from the **Digital Library** to point out some tools used by scientists. Say: *Scientists use a variety of tools to measure and view. A magnifying lens can help you get a closer look at a small object. A scale can help you measure weight or mass accurately.*

Story Words Use **Practice Master SG7.22** to extend vocabulary.

crisis, page 62 deceive, page 82 discard, page 86

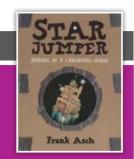
indicate, page 54 occupy, page 63

OL ON LEVEL 640L

Star Jumper PART 2 by Frank Asch

Content Connection: **Spaceships**

Science Fiction | Pages: 59 | Lexile: 640L | GR: P



COMMON CORE STANDARDS

Reading

Summarize CC.4.Rlit.2
Describe a Character CC.4.Rlit.3
Read and Comprehend Literature CC.4.Rlit.10
Use Knowledge of Conventions CC.4.L.3

PROGRAM RESOURCES

PRINT & TECHNOLOGY

Practice Master SG7.22, page SG49 Practice Master SG7.23, page SG50 Practice Master SG7.26, page SG53 Practice Master SG7.28, page SG55

SUGGESTED PACING

DAY 2 Introduce and read pages 70–89

DAY 3 Read pages 90–106

DAY 4 Read pages 107–128 and discuss

DAY 5 Connect across texts

PART 1:

See pages SG18-SG21.

Review Part 1 For a complete summary of *Star Jumper*, see page SG19. Remind students to complete the plot diagram by noting important events, the turning point, and the solution to the problem. To review plot events, ask: *Why does Alex build Star Jumper?* (He builds the ship to get away from his pesky younger brother.) *What problem does the Atom Slider solve?* (It allows *Star Jumper* to move through the atoms of the ceiling.)

Activate Prior Knowledge Ask: How would you feel if you saw a tiger running toward you? Why? How would you feel if it were no bigger than a tiny kitten? Why?

Build Background Have students recall how Alex uses his inventions. Mention that Alex may use one of his inventions to protect himself and invite students to make a prediction about this.

Story Words Use **Practice Master SG7.22** to extend vocabulary.

advanced, page 69 cancel, page 127 duplicate, page 91

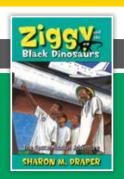
impress, page 7 reverse, page 80

AL ABOVE LEVEL 900L

The Space Mission Adventure PART 2 by Sharon M. Draper

Content Connection: **Space Camp**

Realistic Fiction | Pages: 53 | Lexile: 900L | GR: U



Writing

Write Over Shorter Time for Specific Tasks CC.4.W.10

Speaking and Listening

Draw on Preparation to Explore Ideas CC.4.SL.1.a

Language and Vocabulary

Acquire and Use Academic Words CC.4.L.6

PROGRAM RESOURCES

PRINT & TECHNOLOGY

TECHNOLOGY ONLY

Practice Master SG7.22, page SG49

Practice Master SG7.23, page SG50

Practice Master SG7.27, page SG54

Practice Master SG7.28, page SG55

Digital Library: Model Rocket

SUGGESTED PACING

DAY 2 Introduce and read pages 50–69

DAY 3 Read pages 70–89

DAY 4 Read pages 90–102 and discuss

DAY 5 Connect across texts

PART 1:

See pages SG18–SG21.

Review Part 1 For a complete summary of *The Space Mission Adventure*, see page SG19. Remind students to complete the plot diagram by noting important events, the turning point, and the solution to the problem. Ask: *What have Ziggy and the Black Dinosaurs done at Space Camp so far?* (They have met other campers, used the multi-axis trainer, seen a movie, and gone to lectures about space.) *What mystery do they want to solve?* (They want to find out if a mysterious green object came from space.)

Activate Prior Knowledge Ask: When have you solved a mystery? What clues helped you find the solution?

Build Background Display the photo of a model rocket from the **Digital Library**. Explain that a model is a smaller, simpler copy of an object. Say: You can learn about complicated machines by building a simple model. For example, a model rocket is based on some of the same scientific ideas as an actual rocket.

Story Words Use **Practice Master SG7.22** to extend vocabulary.

accomplishment, page 96 communicate, page 61 potential, page 97

simulate, page 74 successful, page 59

Week 4 Teaching Resources

BL BELOW LEVEL

Moonshot by Brian Floca

Build Comprehension

- Compare and Contrast How do things change for the astronauts when they go from Earth to space? (Possible responses: They are weightless in space. They have to eat special food and sleep without beds or pillows.)
- **Form Opinions** Why was reaching the moon an important goal? (Possible responses: We learned about the moon, which has always interested people. Scientists also created new tools that can be used on Earth and in other space exploration.)

Writing Options

- **Interview Questions** Have students write four questions they would like to ask the Apollo 11 astronauts. Remind students to vary the question words: *who, what, where, when, why, how.*
- **Dialogue** Suggest that students write a dialogue between Armstrong, Aldrin, and Collins as they are traveling to or from the moon. Remind students to make the dialogue realistic by using information from the book.
- **Journal Entry** Invite students to tell what they think about when they see the moon. How did reading *Moonshot* change their ideas?

BL BELOW LEVEL 580L

Stanley in Space PART 2 by Jeff Brown

Build Comprehension

- **Problem and Solution** What problem almost prevented Stanley from bringing the Tyrrans to Earth? How was it solved? (The Tyrran population added 379 pounds to the ship, which made it unsafe; the Lambchops removed every unnecessary item.)
- Identify Theme What message does the story reflect about ending a crisis? (Possible response: Teamwork can solve a crisis. For example, the Lambchops are able to help the Tyrrans end a crisis by working together to find a helpful solution.)

Writing Options

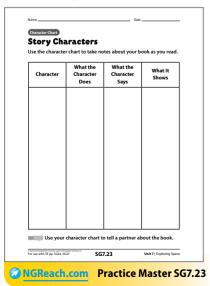
- **News Brief** Have students write a news article about the day the Tyrrans arrive on Earth. Articles should explain who the Tyrrans are and why they have come to Earth.
- **Travel Brochure** Have students write a travel brochure for astronauts who might visit the planet Tyrra. Remind students to include details from the book that describe the setting.
- **Journal Entry** Invite students to compare their predictions about the Lambchops with the actual resolution of the book.

Check & Reteach

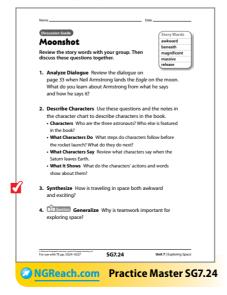
Ask students to describe the main characters in the books they read.

If students have difficulty describing characters, refer them to their character chart. Ask: What does the character do in this book? What are some of the things the character says? What do these actions and words tell you about this character?

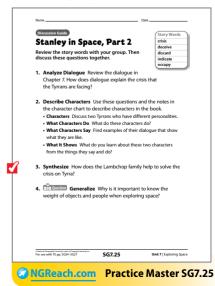
DURING READING



AFTER READING



AFTER READING



OL ON LEVEL 640L

Star Jumper PART 2 by Frank Asch

Build Comprehension

- Make Judgments Does Alex treat his brother Jonathan fairly? Why or why not? (Possible response: Yes, Alex treats his brother fairly because even though he complains about his brother, he does his best to keep him safe when things go wrong.)
- Form Opinions Which of Alex's inventions impressed you the most? Why? (Encourage students to name one of Alex's inventions, such as the Micro-Blaster or the Duplicator, and explain why it is impressive.)

Writing Options

- **Book Review** Have students write a review of *Star Jumper*. Explain that a review should include a short summary of the plot, but not give away any big surprises. It should also identify the strongest parts of the book and tell what kind of readers are most likely to enjoy reading the book.
- **Sequel** Point out that at the end of the book, Alex says he will begin building Star Jumper 2. Have students write about one adventure Alex has while building his new spaceship. Suggest that they include Jonathan and Zoe in their sequels.
- Journal Entry Invite students to compare their predictions about the Star Jumper with what actually happened.

AL ABOVE LEVEL 900L

The Space Mission Adventure PART 2 by Sharon M. Draper

Build Comprehension

- Analyze Character How does Ziggy's personality help him solve a mystery? (Possible response: Ziggy is curious and not afraid to look silly. He asks Ms. Washington about the object, and it turns out to be a stone she lost. If he had not been brave enough to ask, the mystery might not have been solved.)
- **Draw Conclusions** What are some of the most important things campers learn at Space Camp? (Possible responses: They learn facts about space travel, and they learn how to simulate a space mission.)

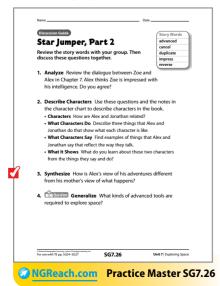
Writing Options

- Interview Questions and Answers Have students write an interview with one of the characters from the book. Encourage them to write at least five questions and then provide answers that the character might give.
- Persuasive Letter Suggest that students write a letter to persuade their school to sponsor a trip to Space Camp. Letters should emphasize how the trip could be a valuable experience for students.
- **Journal Entry** Invite students to compare their predictions about the mysterious object with the solution in the book.

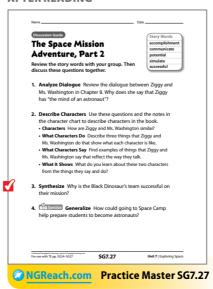


AFTER READING Form heterogeneous groups, and have each member of the group summarize his or her book. Then have groups use **Practice Master SG7.28** to guide discussion.

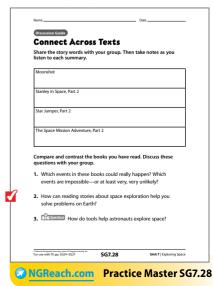
AFTER READING



AFTER READING



AFTER READING



Academic Vocabulary

Story Words

Forces That Move

cause (kawz) verb

To **cause** means to make something happen. *In* the winter, ice may **cause** you to fall down.

direction (du-rek-shun) *noun* **Direction** is the line or path along which something moves. I kick the ball in the direction of the gate.

lessen (less-un) verb

To **lessen** means to get smaller in some way. We close our classroom windows to **lessen** the noise from the playground.

smooth (smüth) *adjective*Something smooth is very even and flat, not rough and bumpy. *The new road is smooth*.

strength (strengkth) *noun*

Strength is a lot of power. You need a lot of **strength** to carry a heavy box of books.

Defining the Laws of Motion

curious (kyur-ē-us) adjective

Someone **curious** wants to learn or find out. *My younger sister is so curious, she asks hundreds of questions every day.*

model (mod-ul) noun

A **model** is a description used to get a sense of something that cannot be seen. *The scientist explained the model of how Earth moves.*

prove (prüv) verb

To **prove** means to show that something is true. *I used a scale to prove that I weigh more than my brother.*

reaction (re-ak-shun) noun

A **reaction** is a response to something else. *Ripples are a reaction to throwing a rock in a lake.*

rotate (rō-tāt) verb

To **rotate** means to turn. At the top of the hill, I **rotate** all the way around to enjoy the view on all sides.

Using Force and Motion

apply (u-plī) verb

To **apply** means to have a connection to someone or something. *The swimming pool rules* **apply** to all swimmers.

conclude (con-clüd) verb

To **conclude** is to decide something based on facts. Because your shoes are wet and muddy, we **conclude** that you have been outside.

reaction (re-ak-shun) noun

A **reaction** is a response to something or someone. What **reaction** do you expect if you push a pin into a balloon?

reduce (ri-düs) verb

To **reduce** means to make smaller in size, amount, or number. Rain will **reduce** the number of people at the picnic.

resist (ri-zist) verb

When you **resist** something, you are not changed or harmed by it. A big hat helps me **resist** the heat of the sun.

The Science of Hitting a Home Run

determine (di-tur-mun) verb

To **determine** means to be the reason for something. Speed will **determine** the winner of the race.

direction (du-rek-shun) noun

Direction is the line or path along which something moves. *I change the direction of my bicycle by turning the front wheel.*

impact (im-pakt) noun

An **impact** is the striking together of two things. The **impact** of my finger on the wet clay leaves a fingerprint.

transfer (trans-fur) verb

To **transfer** means to pass from one place to another. The energy from the sun **transfers** to our sidewalk, and it heats up.

vary (vair-ē) *verb*

To **vary** means to change. I **vary** my breakfasts because I don't like to eat the same thing every day.

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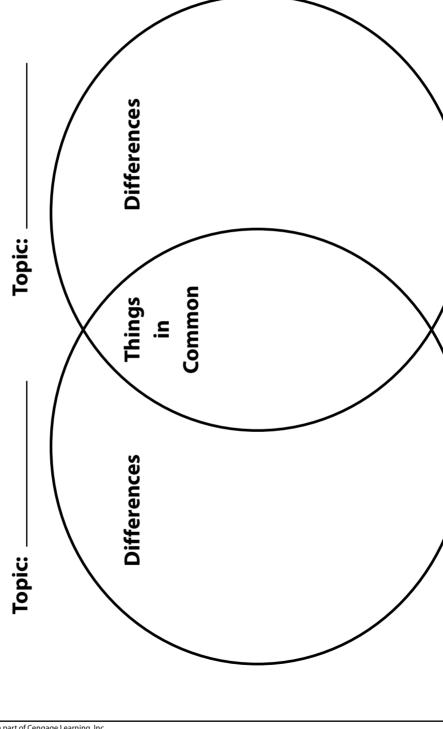
SG7.1

Unit 7 | Exploring Space

Compare and Contrast

Venn Diagram

Use the Venn diagram to take notes about your book as you read.



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SG7.2

Unit 7 | Exploring Space

Use your Venn diagram to tell a partner about the book.

Forces That Move

Review the story words with your group. Then discuss these questions together.

Story Words	
cause	
direction	
lessen	
smooth	
strength	

- **1. Analyze Text Features** Look at the photos on pages 10–13. How do the photos show forces in action? What information do you learn from the captions?
- **2. Compare and Contrast** Use these questions and the notes in the Venn diagram to compare and contrast two people, places, or things.
 - **Topics** What are two different forces described in Chapter 1?
 - Things in Common How are these forces similar?
 - **Differences** What are the most important differences between them?
- **3. Synthesize** Review Chapter 2. How does reading about snowboarding help you put together the information about forces in Chapter 1?
- **4. Generalize** Why do scientists need to understand forces that move in order to explore space?

lame	Date

Defining the Laws of Motion

Review the story words with your group. Then discuss these questions together.

Story Words	
curious	
model	
prove	
reaction	
rotate	

- 1. Analyze Text Features Review Chapter 2. How do the red subheads help you scan for information?
- 2. Compare Text Features Look at the time line and gallery on pages 38–39. How do these features summarize information from the book?
- **3. Compare and Contrast** Use these questions and your notes in the Venn diagram to compare and contrast two people, places, or things.
 - Topics Which two scientists do you find most surprising?
 - Things in Common What do they have in common? Did they study similar topics? Did they experience similar problems?
 - **Differences** How was each scientist unique? What discoveries did each scientist make? What happened in his life?
- **4. Synthesize** Based on your reading about each of the four scientists, what does it take to be a good scientist?
- 5. Big Question Generalize How did early scientists help make current space travel possible?

Using Force and Motion

Review the story words with your group. Then discuss these questions together.



- **1. Analyze Text Features** Review the diagram on pages 20–21. How does this information help you apply facts about force and motion?
- 2. Compare Text Features Look at the Think Like a Scientist features on pages 17 and 26–27. What do these features have in common? How do they support ideas in the book?
- **3. Compare and Contrast** Use these questions and your notes in the Venn diagram to compare and contrast two people, places, or things.
 - **Topics** What do scientists mean by action and reaction?
 - Things in Common How are an action and reaction similar?
 - Differences How are an action and reaction different?
- **4. Synthesize** Describe some of the forces people use when they ride a bicycle.
- **5. Generalize** How do people use force and motion to explore space?

The Science of Hitting a Home Run

Review the story words with your group. Then discuss these questions together.



- **1. Analyze Text Features** Review the Table of Contents on page 3. How can you use this information to help you summarize the book?
- **2. Compare Text Features** Review the diagrams on pages 8, 13, and 23. How are these diagrams similar? How are they different?
- **3. Compare and Contrast** Use these questions and your notes in the Venn diagram to compare and contrast two people, places, or things.
 - **Topics** What are two kinds of motion that you need to hit a home run?
 - Things in Common What do these two motions have in common?
 - **Differences** How are these two motions different?
- 4. Synthesize Compare scoring a basket in basketball with hitting a home run. What do these two motions have in common? How are they different?
- 5. Big Question Generalize How is the science of hitting a home run related to the science of exploring space?

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SG7.6

Unit 7 | Exploring Space

Connect Across Texts

Share the story words with your group. Then take notes as you listen to each summary.

Forces That Move

Defining the Laws of Motion

Using Force and Motion

The Science of Hitting a Home Run

Compare and contrast the books you have read. Discuss these questions with your group.

- 1. What did you learn about how force and motion are related?
- **2.** What do these books tell you about forces that you use every day?
- **3. Elic** Question What ideas about force and motion do you think scientists use when they are exploring space?

Name	Date

Academic Vocabulary

Story Words

Lighter on the Moon

amount (u-mownt) noun

The **amount** of something is how much of it there is. If you like sweet lemonade, make the amount of sugar greater.

compare (cum-pair) verb

When you compare two things, you notice how they are alike and different. We compare cats and doas before we decide which one will be the best pet for our family.

determine (di-tur-mun) verb To **determine** means to be the reason for something. How much you eat will determine how full you feel.

farther (far-thur) adjective

Farther means at a greater distance. I have been running every day, so now I can run **farther** than I could last year.

object (ahb-jikt) noun

An **object** is something you can see and touch but is not alive. The newest object in our classroom is

Exploring Space

accomplish (uh-kahm-plish) verb When you accomplish something, you get it

done. Will my sister accomplish her goal of winning the race?

advance (ud-vans) verb

To advance means to improve or make progress. In the future, computers will advance so they are faster and smaller.

deliver (di-liv-ur) verb

To **deliver** means to take something to someone. The restaurant **delivers** a pizza to our house.

permanent (purm-un-unt) adjective Something **permanent** will last for a very long time. My brother's baby tooth just fell out, so his **permanent** tooth has not come in yet.

revolve (ri-vahlv) verb

To **revolve** means to turn in a circle or orbit around a point in the center. The moon revolves around the Earth.

The International Space Station

intense (in-tens) adjective

Intense means very strong. The intense heat made us all want to go swimming.

international (int-ur-nash-un-ul) adjective **International** means involving different countries. The international plan will affect the U.S., Mexico, and Canada.

program (pro-gram) noun

A **program** is a plan for doing something. Our town has a new **program** to teach people to use less water.

structure (struk-chur) noun

A **structure** is something that has been built. The long, gray **structure** you see in this photo is a bridge.

vehicle (vē-ik-ul) noun

A **vehicle** carries people or goods from place to place. Cars, planes, bicycles, and boats are vehicles.

Stars and Galaxies

contract (kun-trakt) verb

When things **contract**, they get smaller. *Some* animals **contract** into a ball when they are frightened.

expand (ik-spand) verb

When things **expand**, they get larger. *The balloon* will **expand** when you blow in some air.

prove (prüv) verb

To **prove** means to show that something is true. Show your prize to **prove** that you won the contest.

theory (the-u-re) noun

A **theory** is an idea that explains how or why something happens. The scientist has an interesting new theory about why dinosaurs disappeared.

Vast (vast) adjective

Something **vast** is very great in size or amount. It takes many weeks to cross the **vast** desert on foot.

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SG7.8

Unit 7 | Exploring Space

Information Chart

Compare and Contrast

Use the information chart to take notes about your book as you read.

Page	What It Says	What It Means

Use your information chart to tell a partner about the book.

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SG7.9

Unit 7 | Exploring Space

Lighter on the Moon

Review the story words with your group. Then discuss these questions together.

Story Words	1
amount	
compare	
determine	
farther	
object	

- 1. Analyze a Science Report Review the heads on pages 3, 6, 10, 12, and 16. How do these heads help you understand the information in this science report?
- 2. Explain Scientific Text Use these questions and the notes in the information chart to explain ideas in the book.
 - What It Says Review pages 7–9. What does the text say about the connection between gravity and weight?
 - What It Means Use your own words to explain how gravity determines weight.
 - What It Says and What It Means Review page 10. What did astronauts say it felt like to walk on the moon? Explain their statement in your own words.
- **3. Synthesize** Gravity on Jupiter is more than two times greater than gravity on Earth. How would your weight change if you were on Jupiter? Why?
- 4. Big Question Generalize Why do astronauts need to know how much they will weigh in space?

COPY READY

Discussion Guide

Exploring Space

Review the story words with your group. Then discuss these questions together.



- **1. Analyze a Science Report** Review the Introduction on pages 4–5. How do these pages prepare readers for the information in this science report?
- **2. Explain Scientific Text** Use these questions and the notes in the information chart to explain ideas in the book.
 - **What It Says** Review pages 8–9. How are the planets in our solar system divided into two groups?
 - What It Means Use your own words to explain why these categories make sense.
 - What It Says and What It Means Review pages 16–17. What goal did scientists accomplish by creating multistage rockets? Explain how this invention helped advance space exploration.
- **3. Synthesize** Review Chapter 3. How do astronauts and robots work together to explore space?
- **4. BigQuestion Generalize** What tools do scientists use to explore space?

The International Space Station

Review the story words with your group. Then discuss these questions together.



- **1. Analyze a Science Report** Review the diagrams on pages 6, 9, 12–13, and 16. How do these diagrams help you understand the International Space Station?
- **2. Explain Scientific Text** Use these questions and the notes in the information chart to explain ideas in the book.
 - What It Says Review pages 16–17. What does the text say about energy on the Station?
 - What It Means Use your own words to explain how the Station gets the energy it needs.
 - What It Says and What It Means Review pages 14–15. How does the Station keep from crashing to Earth? What does this tell you about the effect of Earth's gravity on the Station?
- **3. Synthesize** How is living on the Space Station a kind of research? What do astronauts learn when by staying on the Station for 3 to 6 months?
- **4. Generalize** Why is it important that many countries work together to create the International Space Station?

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Unit 7 | Exploring Space

Stars and Galaxies

Review the story words with your group. Then discuss these questions together.

Story Words	
contract	
expand	
prove	
theory	
vast	

- **1. Analyze a Science Report** Review page 8. What kinds of information does this science report include to help you understand distances in space?
- **2. Explain Scientific Text** Use these questions and the notes in the information chart to explain ideas in the book.
 - **What It Says** Review pages 12–13. What does the text say about how stars contract and expand during their life?
 - **What It Means** Use your own words to explain the life stages of a star.
 - What It Says and What It Means Review page 19. How does the text describe the big bang theory? Explain this theory in your own words.
- **3. Synthesize** How would you describe Earth's position in the universe?
- **4. Big Question Generalize** How do scientists use tools to explore the vast universe?

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Connect Across Texts

Share the story words with your group. Then take notes as you listen to each summary.

Lighter on the Moon
Exploring Space
The International Space Station
Stars and Galaxies

Compare and contrast the books you have read. Discuss these questions with your group.

- 1. How does each book add to your understanding of outer space?
- 2. How might you apply the information in these books to your everyday life?
- 3. **Big Question** What are some of the most important topics that scientists need to understand before they explore space?

Academic Vocabulary

Story Words

Richie's Rocket

accomplish (uh-kahm-plish) *verb* When you accomplish something you get it done. *My grandmother says I can accomplish anything I really try to do.*

complicated (kahm-plu-ká-tud) *adjective*Something **complicated** has many parts that make it difficult to use or understand. *It took me three days to follow the complicated steps for building a model rocket.*

CURIOUS (kyur-ē-us) *adjective*Someone **curious** wants to learn or find out. *I am*reading a book about stars because I am very **curious** about space.

gradually (graj-u-wul-ē) *adverb* **Gradually** means slowly and steadily. *I am gradually learning how to play the trumpet.*

pretend (pri-tend) verb

To **pretend** means to make believe. I like to **pretend** that I can fly to other planets.

Stanley in Space PART 1

appear (u-pear) verb

To **appear** means to come into sight. After the sun sets, the stars **appear** in the night sky.

extraordinary (ik-strord-un-er-ē) *adjective* Something **extraordinary** is unusual or amazing. The sky was so clear we saw an **extraordinary** number of stars.

proceed (prō-sēd) verb

To **proceed** means to carry on an action. *In the* parade, the musicians **proceed** to march down main street.

reassure (rē-u-shur) verb

When you **reassure** someone, you calm them and give them courage. Before I dive into the water, my parents **reassure** me that it is not too cold.

Serious (sihr-ē-us) adjective

When you are **serious**, you are thoughtful and not joking. I could tell my teacher was **serious** because she was not smiling.

Star Jumper Part 1

accomplishment (u-kahm-plish-munt) *noun* An **accomplishment** is something finished well. *Climbing to the top of the mountain was a true accomplishment*.

delay (di-lā) noun

When there is a **delay**, something does not happen when it is supposed to happen. We planned to travel by train, but the snowstorm caused a long **delay**.

effective (i-fek-tiv) *adjective*Something **effective** gets the job done well.
Barking is an **effective** way for a dog to get your attention.

install (in-stahl) verb

To **install** means to set up for use. Our school will **install** a new science lab next year.

solution (su-lü-shun) noun

A **solution** is the answer to a problem. *Is there more than one correct solution to the puzzle?*

The Space Mission Adventure part 1

focus (fō-kus) verb

To **focus** means to pay attention to. *It is easy to* **focus** on my grandmother because her stories are so interesting.

member (mem-bur) noun

A **member** is a person who belongs to a group. *I am the youngest member of the basketball team.*

possibility (pahs-u-bil-uh-tē) *noun* A **possibility** is something that could happen. When I run a race, I try to think about the **possibility** of winning.

realistic (rē-u-lis-tik) *adjective*Something **realistic** is very much like the real thing. The toy frog is so **realistic** l keep thinking it is going to jump away.

suspend (su-spend) verb

To **suspend** means to hang something from above. We **suspend** dozens of party balloons from the ceiling.

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Unit 7 | Exploring Space

Plot Diagram

Story Plot

Use the plot diagram to take notes about your book as you read.

Problem: Events: Turning Point: Solution:

Use your plot diagram to tell a partner about the book.

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Unit 7 | Exploring Space

COPY READY

Discussion Guide

Richie's Rocket

Review the story words with your group. Then discuss these questions together.

- Story Words
 accomplish
 complicated
 curious
 gradually
 pretend
- **1. Analyze Dialogue** Review Richie's dialogue on pages 10–14. What do you learn about Richie from the things he says and the way he says them?
- **2. Comprehend Plot** Use these questions and the notes in the plot diagram to tell what happens in the book.
 - **Problem** What happens to Richie after he goes to the planetarium?
 - **Events** What happens right before Richie's rocket blasts off? Describe three things that happen next.
 - Turning Point How does Richie feel on the moon?
 - **Solution** How has Richie changed at the end of the story?
- **3. Synthesize** Does Richie pretend to visit the moon or does he really go there? How do you know?
- **4. Big** Question **Generalize** What does Richie have in common with a trained astronaut?

Name Date

Stanley in Space, Part 1

Review the story words with your group. Then discuss these questions together.



- 1. Analyze Dialogue Review Chapter 1. What do you learn about each member of the Lambchop family from the dialogue?
- **2. Compare Dialogue** Review the dialogue in Chapter 5. How do the Tyrrans talk like people from Earth?
- **3. Comprehend Plot** Use these questions and the notes in the plot diagram to tell what happens in the book.
 - **Problem** Why does the President of the United States contact Stanley and his family?
 - **Events** How do the Lambchops respond to the President's plan? What happens next?
- 4. Synthesize Which adventures in this book are believable and which are not? Why?
- 5. Big Question Generalize Are the Lambchops good astronauts? Why or why not?

Star Jumper, Part 1

Review the story words with your group. Then discuss these questions together.



- **1. Analyze Dialogue** Review Chapter 2. What do you learn about Alex and his brother Jonathan from their dialogue?
- **2. Analyze Dialogue** Review pages 45–46. How can dialogue move a story forward?
- **3. Comprehend Plot** Use these questions and the notes in the plot diagram to tell what happens in the book.
 - **Problem** Alex tells the story in *Star Jumper*. According to Alex, what is his biggest problem?
 - **Events** What inventions does Alex make to find a solution?
- **4. Synthesize** Are Alex's inventions effective? Why or why not?
- **5. Generalize** How does Alex apply his knowledge of science when he makes his inventions?

The Space Mission Adventure, Part 1

Review the story words with your group. Then discuss these questions together.



- 1. Analyze Dialogue Review Chapter 1. What do you learn about each member of the Black Dinosaurs from their dialogue?
- 2. Compare Dialogue Review the dialogue in Chapter 3. Do the other students at Space Camp speak like the members of the Black Dinosaurs? Find examples to support your answer.
- **3. Comprehend Plot** Use these questions and the notes in the plot diagram to tell what happens in the book.
 - **Problem** What mystery does Ziggy uncover at Space Camp?
 - **Events** What events lead up to the discovery of this mystery?
- 4. Synthesize How does Space Camp combine learning and fun?
- 5. Big Question Generalize Why might astronauts want to take part in Space Camp with students?

Discussion Guide

Connect Across Texts

Share the story words with your group. Then take notes as you listen to each summary.

Richie's Rocket

Stanley in Space, Part 1

Star Jumper, Part 1

The Space Mission Adventure, Part 1

Compare and contrast the books you have read. Discuss these questions with your group.

- **1.** How do characters in these books use their imaginations when they explore space?
- **2.** How can fiction help you understand what is and isn't possible when real people explore space?
- **3. Big Question** What does it take to be a good astronaut? Which character do you think would be the best space explorer? Why?

Name	Date
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Academic Vocabulary

Story Words

Moonshot

awkward (awk-wurd) adjective Awkward means clumsy, not graceful. I felt very awkward trying to tie my shoes with my gloves on.

beneath (bi-nēth) preposition Beneath means under or below. The tunnel ages **beneath** the river.

magnificent (mag-nif-u-sunt) adjective Something **magnificent** is very beautiful. *Many* people climb the mountain to see the **magnificent** view from the top.

massive (mas-iv) adjective Something **massive** is very weighty or heavy. A massive tree fell down and blocked the road.

release (ri-les) verb

To release means to let go or set free. If you release the kite string, the kite will fly away.

Stanley in Space PART 2

Crisis (krī-sus) noun

A **crisis** is a time of danger and difficulty. *Our town* faces a water **crisis** because it has not rained in two months.

deceive (di-sēv) verb

If someone **deceives** you, that person tricks you into believing something that is not true. My uncles are so much alike that they can **deceive** people into thinking they are twins.

discard (dis-card) verb

To **discard** means to throw something away. I open the present and **discard** the box it came it.

indicate (in-du-kāt) verb

To **indicate** means to point out. Red stars on the map **indicate** places where there are schools.

OCCUPY (ahk-yu-pī) verb

To **occupy** means to take up or fill. On the way to the space show, we **occupy** every seat in the school bus.

Star Jumper PART 2

advanced (ud-vanst) adjective

Something advanced is not easy. The advanced skating class is for students who already know how to skate.

cancel (kan-sul) verb

When you cancel an event, you decide it will not happen. We will **cancel** the hike if there is a big storm.

duplicate (dü-pli-kāt) verb

To **duplicate** means to copy. Last night's pizza was so tasty, I plan to duplicate it again tonight.

impress (im-pres) verb

To **impress** means to make people think highly of you. I know my father will impress you when he plays the drums.

reverse (ri-vers) adjective

Reverse means opposite or backward. Run around the track, then turn around and run in the **reverse** direction.

The Space Mission

Adventure PART 2

accomplishment

(u-kahm-plish-munt) noun

An accomplishment is something finished well. My biggest accomplishment last year was winning the spelling bee.

communicate (ku-myü-nu-kāt) verb When you communicate, you share ideas or feelings with another person. My aunt and I often communicate by e-mail.

potential (pu-ten-shul) noun

Potential is something that can become real. We all have the **potential** to become good leaders.

simulate (sim-yu-lāt) verb

To **simulate** means to pretend. The roller coaster **simulates** flying, even though it does not leave the ground.

successful (suk-ses-ful) adjective

Something successful turns out well. Our school play was very **successful** because we all worked well together.

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Unit 7 | Exploring Space



Story Characters

Use the character chart to take notes about your book as you read.

Character	What the Character Does	What the Character Says	What It Shows

-61		

Use your character chart to tell a partner about the book.

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Unit 7 | Exploring Space

Moonshot

Review the story words with your group. Then discuss these questions together.



- 1. Analyze Dialogue Review the dialogue on page 33 when Neil Armstrong lands the *Eagle* on the moon. What do you learn about Armstrong from what he says and how he says it?
- 2. Describe Characters Use these questions and the notes in the character chart to describe characters in the book.
 - **Characters** Who are the three astronauts? Who else is featured in the book?
 - What Characters Do What steps do characters follow before the rocket launch? What do they do next?
 - What Characters Say Review what characters say when the Saturn leaves Earth.
 - What It Shows What do the characters' actions and words show about them?
- 3. Synthesize How is traveling in space both awkward and exciting?
- 4. Big Question Generalize Why is teamwork important for exploring space?

Stanley in Space, Part 2

Review the story words with your group. Then discuss these questions together.

Story Words	١
crisis	1
deceive	1
discard	1
indicate	1
occupy	

- **1. Analyze Dialogue** Review the dialogue in Chapter 7. How does dialogue explain the crisis that the Tyrrans are facing?
- **2. Describe Characters** Use these questions and the notes in the character chart to describe characters in the book.
 - Characters Discuss two Tyrrans who have different personalities.
 - What Characters Do What do these characters do?
 - What Characters Say Find examples of their dialogue that show what they are like.
 - **What It Shows** What do you learn about these two characters from the things they say and do?
- **3. Synthesize** How does the Lambchop family help to solve the crisis on Tyrra?
- **4. Generalize** Why is it important to know the weight of objects and people when exploring space?

lame	Date

Star Jumper, Part 2

Review the story words with your group. Then discuss these questions together.



- 1. Analyze Review the dialogue between Zoe and Alex in Chapter 7. Alex thinks Zoe is impressed with his intelligence. Do you agree?
- 2. Describe Characters Use these questions and the notes in the character chart to describe characters in the book.
 - Characters How are Alex and Jonathan related?
 - What Characters Do Describe three things that Alex and Jonathan do that show what each character is like.
 - What Characters Say Find examples of things that Alex and Jonathan say that reflect the way they talk.
 - What It Shows What do you learn about these two characters from the things they say and do?
- **3. Synthesize** How is Alex's view of his adventures different from his mother's view of what happens?
- 4. Big Question Generalize What kinds of advanced tools are required to explore space?

The Space Mission Adventure, Part 2

Review the story words with your group. Then discuss these questions together.

- accomplishment communicate potential simulate successful
- **1. Analyze Dialogue** Review the dialogue between Ziggy and Ms. Washington in Chapter 8. Why does she say that Ziggy has "the mind of an astronaut"?
- **2. Describe Characters** Use these questions and the notes in the character chart to describe characters in the book.
 - Characters How are Ziggy and Ms. Washington similar?
 - **What Characters Do** Describe three things that Ziggy and Ms. Washington do that show what each character is like.
 - What Characters Say Find examples of things that Ziggy and Ms. Washington say that reflect the way they talk.
 - What It Shows What do you learn about these two characters from the things they say and do?
- **3. Synthesize** Why is the Black Dinosaur's team successful on their mission?
- **4. Big** Question **Generalize** How could going to Space Camp help prepare students to become astronauts?

Name	Date

Connect Across Texts

Share the story words with your group. Then take notes as you listen to each summary.

Compare and contrast the books you have read. Discuss these questions with your group.

- 1. Which events in these books could really happen? Which events are impossible—or at least very, very unlikely?
- 2. How can reading stories about space exploration help you solve problems on Earth?
- 3. Big Question How do tools help astronauts explore space?



Speaking and Listening Observation Log

Student Name	rds	u	aborative grade 4 topics nd expressing	ving read	icitly draw ormation ideas under	ussions and	stions to clarify nake discussion and	nd explain their	ight of the	ond or	edia and ively, and		speaker
As you monitor students in their small groups, put a check mark beside each behavior that you observe. Use conferences to coach students in developing speaking and listening skills.	Speaking and Listening Standards	Comprehension and Collaboration	 Engage effectively in a range of collaborative discussions with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly. 	read having prepared having read	or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.	 b. Follow agreed-upon rules for discussions and carry out assigned roles. 	c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.	d. Review the key ideas expressed and explain their	own ideas and understanding in light of the discussion.	2. Paraphrase portions of a text read aloud or	information presented in diverse media and formats, including visually, quantitatively, and	orally.	3. Identify the reasons and evidence a speaker

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Grade 4 Assessment

SG7.29

Name	Date
Rook Title	Panes

Reading Strategy Assessment



Check the reading strategies the student used and ask the questions that follow about how the student used the strategy. Use the rubric to help you determine how well the student used the strategy. Circle the student's score.

Ask: What did you do while you were reading?

Were there any parts of the book that confused you or were hard to follow?

What did you do to understand better?

How did it work?

	Reading Strategy Rubrics								
	Plan and Monitor 4 3 2 1	Make Connections 4 3 2 1	Visualize 4 3 2 1						
	 What did you do before you started reading the book? When you were reading, did you go back and reread any part of the book for better understanding? When you didn't understand, what did you do? How did the meaning become clear to you? 	 Did you read anything in the book that connects to your life? What was that, and how does it connect? Did you read anything that reminded you of something else you read? What was that, and how does it connect? Did you read anything you already knew about in the world around you? What was that, and how does it connect? 	 Was there a part of the book that made you visualize (see pictures in your mind)? How did this help you understand what you were reading? Are there particular words that helped you visualize? 						
4	Consistently previews text and makes and confirms predictions. Monitors when comprehension breaks down and demonstrates ability to clarify text successfully.	Makes text-to-self, text-to-text, and/or text-to-world connections to enhance comprehension. Can explain how connections enrich understanding.	Describes multi-sensory mental images that go beyond the literal text. Explains how this helped understanding.						
3	Often previews text and makes and confirms predictions. Monitors comprehension, but cannot always clarify text independently.	Makes some type of relevant connection, but does not elaborate on how the connection helped understanding.	Describes multi-sensory mental images and goes beyond the literal text.						
2	Sometimes previews and makes predictions, but may not confirm them. Can monitor when comprehension has broken down, but does not attempt to clarify text.	Attempts to make connections, but the connections are not relevant to understanding the text.	Describes few mental images directly related to text descriptions or pictures.						
1	Does not preview or make predictions. Is not aware of how to monitor comprehension or clarify meaning.	Does not make connections with the text.	Does not describe mental images related to the text.						

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Grade 4 Assessment

SG7.30

Name	Date	Date		
Book Title	Pages			

Reading Strategy Assessment

Unit 7

		Reading Strategy Rubrics			
	Ask Questions 4 3 2 1	Make Inferences 4 3 2 1	Determine Importance 4 3 2 1	Synthesize 4 3 2 1	
	 What questions did you have when you were reading? Did you find answers to the questions? Can you tell me some examples of these kinds of questions and what you learned? 	 Did you infer, or figure out, something in the book that was not stated directly? Were there details in the book that helped you figure this out? What did you already know about those details that helped you make this inference? 	 What is an important idea in the book you chose? Why do you think that is important? How would you summarize this book for someone who has not read it? 	 Tell me about the book you read. What about the book can you generalize, or say is true most of the time? What can you conclude from these parts? Based on this book and what you know about (topic), what do you think is probably true about (topic)? 	
4	Expands text meaning by asking questions that address large concepts and clarify confusion. Can provide relevant examples related to the book.	Makes inferences using examples from the text and background knowledge. Can use inferences to interpret the text.	Uses many parts of the text (pictures, title, words) to accurately identify an important idea, and summarizes the important ideas in the book.	Synthesizes text accurately to draw conclusions and/or make generalizations. Can explain how synthesis helps comprehension.	
3	Asks relevant questions and looks for answers to clarify confusion or understand the text.	Makes inferences that are consistent with the text or background knowledge. Cannot tell you how inference was made.	Identifies and summarizes some important ideas from the text using a few parts of the text. Cannot explain importance.	Combines some information from the text to draw basic conclusions or make limited generalizations.	
2	Asks only literal questions.	Makes inferences that are inaccurate or unsubstantiated.	Attempts to identify and summarize important ideas, but is inaccurate.	Attempts to synthesize, but synthesis is limited or leads to inaccurate conclusions or generalizations.	
1	Does not ask questions or asks irrelevant questions.	Does not attempt to make inferences.	Cannot identify an important idea.	Does not draw a conclusion or make a generalization about the text.	

Name	Data
Name	Date

Reader Reflection

Date	Title of Book		Author
heck all that a	pply.		
. Before I rea	d this book, I :	3.	If I didn't understand a word while reading,
read the	e title.		stopped to think about its meaning.
looked	at the pictures.		looked for clues to its meaning.
ш.	ed what I would read about. ted:		checked in a dictionary or asked someone about the meaning of the wor
			other (describe):
stopped just read		4.	This book reminded me of something I known or read already. It reminded me of:
	SACON TO SERVICE AND ASSESSED		
This	book was: easy about	right	☐ hard
Rate	this book! 🏠 🏠 🛱	2	7 ☆
l wo	uld like to read other books:	about tl	his topic D by this author

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Grade 4 Assessment

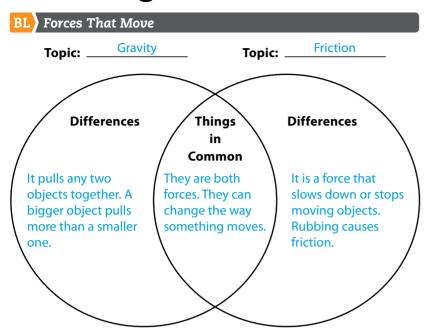
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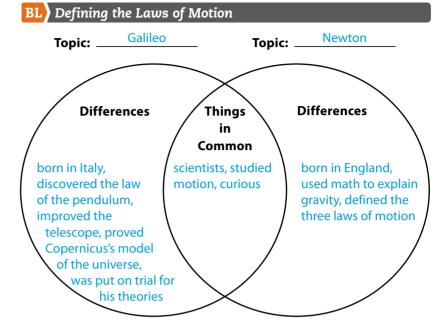
Week 1 Practice Master Answer Key

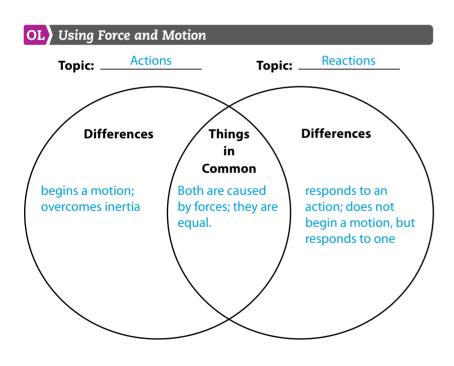
Practice Master SG7.2

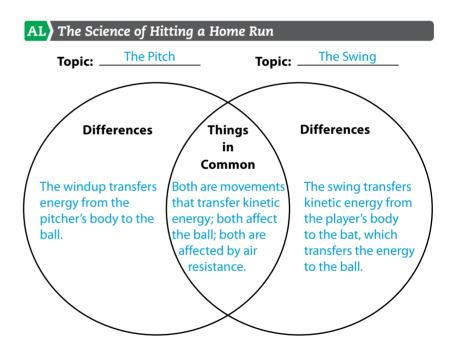


Venn Diagram Practice Master SG7.2









XXX Analyze Books

BL Forces That Move

Practice Master SG7.3

- 1. **Analyze Text Features** Each photo shows a force that affects motion. They show gravity and friction. The captions help you understand what forces are shown in the photo.
- 2. Compare and Contrast
 - Topics Gravity and Friction
 - Things in Common Both are forces; both affect motion.
 - **Differences** Gravity can cause things to speed up or slow down. It is a force that pulls any two objects together. Friction is a force that makes things slow down or stop.
- 3. **Synthesize** Reading about snowboarding shows how people can use gravity and friction. Snowboarders reduce friction by using streamlined helmets and smooth boards. They use friction to slow down or stop. Gravity pulls them downhill.
- 4. Generalize Gravity and friction are forces that affect all motion, including spacecraft and astronauts.

OL Using Force and Motion

Practice Master SG7.5

- 1. **Analyze Text Features** The diagram shows how ski jumpers use forces like gravity and friction. This information applies the general rules described about these forces.
- 2. Compare Text Features Both features have readers apply facts to answer questions about motion. The first focuses on measuring, the second on falling objects.
- 3. Compare and Contrast
 - **Topics** Actions and Reactions
 - Things in Common Both are motions cause by forces; they are equal in force.
 - **Differences** An action starts a motion. A reaction responds to an action. They are in opposite directions.
- 4. **Synthesize** The rider uses forces to push the pedals, which cause the wheels to spin. Friction pushes the wheel along the ground and moves the bicycle forward.
- 5. Generalize Scientists use force and motion to launch spacecraft and satellites. Astronauts study how forces differ away from Earth's gravity.

Connect Across Texts Practice Master SG7.7

1. Students should point out that every motion is the result of a force or a combination of forces. Gravity and friction affect all motions on Earth. Students might summarize Newton's three laws of motion to describe how forces and motion are related, or they might discuss the transfer of kinetic energy.

BL Defining the Laws of Motion

Practice Master SG7.4

- 1. **Analyze Text Features** The red subheads summarize the information in each section. They help you find the main idea of each part of the chapter.
- 2. **Compare Text Features** The gallery gives basic biographical information about each scientist. The time line shows key events during their lives to help you understand the era.
- 3. Compare and Contrast
 - Topics Galileo and Newton
 - Things in Common Both were scientists; both studied motion; both were curious.
 - **Differences** Galileo discovered the law of the pendulum and improved the telescope. He proved that Earth is not the center of the universe, but was put on trial for his theories. Newton studied gravity and defined the three laws of motion.
- 4. **Synthesize** Scientists should be curious and determined to prove the truth, no matter what challenges they face.
- 5. **Generalize** Each scientist contributed to our understanding of motion and the universe. Without their ideas, space travel would be impossible.

AL The Science of Hitting a Home Run

Practice Master SG7.6

- 1. **Analyze Text Features** The Table of Contents names the chapters. You can use this information to summarize important details in the book.
- 2. Compare Text Features Each diagram shows how the flow of air affects a ball. They show a straight pitch, a curveball, and backspin.
- 3. Compare and Contrast
 - Topics The Pitch and The Swing
 - Things in Common Both motions affect the ball; both transfer kinetic energy; the movement of the ball is also affected by the flow of air.
 - **Differences** The pitch transfers energy from the pitcher's body to the ball. The hit transfers energy from the bat to the ball.
- 4. **Synthesize** Hitting a home run and scoring a basket both involve the transfer of kinetic energy. In basketball, the player's energy is transferred to the ball. In a home run, the pitcher's energy and the batter's energy are transferred to the ball.
- 5. **Generalize** The transfer of energy is important in both sports and exploring space. Other ideas, including momentum, impact, and airflow, are also related.
- 2. Encourage students to describe how everyday movements, such as walking, running, jumping, or brushing your teeth, involve gravity, friction, air resistance, and the transfer of kinetic energy.
- 3. Scientists need to understand gravity and friction to launch satellites or spacecraft; they need to know how objects and people move in space.

Week 2 Practice Master Answer Key

Practice Master SG7.9

Information Chart Practice Master SG7.9

BL Lighter on the Moon

Page	What It Says	What It Means
7	Gravity determines weight.	When there's more gravity, you weigh more. If there's less gravity, you weigh less.
8	All objects have gravity.	Everything has some gravity. Bigger things have more gravity.
10	Walking on the moon feels like floating.	When there's less gravity, you feel different.

BL Exploring Space

Page	What It Says	What It Means
8, 9	There are inner and outer planets.	The four inner planets share many things; so do the four outer planets.
15	Galileo believed the sun is the center of the solar system.	Facts can prove theories true.
16, 17	Multistage rockets were used to reach the moon.	Science can help people solve difficult problems.

OL The International Space Station

Page	What It Says	What It Means
6	The truss holds everything together.	The truss connects all of the parts built by different countries.
8	Spacewalkers wear space suits.	People cannot live in space without some protection.
14	The Station falls toward Earth.	The Station is still affected by Earth's gravity, even though it is far away.

AL Stars and Galaxies

Page	What It Says	What It Means
8	Distances in space are measured in light years.	Most units, like miles or kilometers, are too small to measure space.
12	Hydrogen atoms come together when a star forms.	All stars contain hydrogen.
19	The universe is expanding.	The universe will continue to expand and distances will increase.

XXX Analyze Books

BL Lighter on the Moon

Practice Master SG7.10

- 1. **Analyze a Science Report** The red heads summarize the information in each section. They help you identify the main ideas in each part of the report.
- 2. Explain Scientific Text
 - What It Says "Your weight is determined by how much Earth's gravity pulls on you."
 - What It Means Gravity depends on the size of an object. If an object is smaller, it has less gravity. So, if you are on a smaller planet or moon, you weigh less.
 - What It Savs and What It Means "Walking on the moon felt like floating." This means that it felt very different to be on the moon because of weighing so much less.
- 3. **Synthesize** You would weigh more than twice as much on Jupiter. It would probably feel hard to walk because you would feel so heavy.
- 4. Generalize Astronauts must plan how they will move in space, so they need to predict how much they will weigh in different places, including on the moon.

OL The International Space Station

Practice Master SG7.12

- 1. Analyze a Science Report The diagrams show parts of the Station so you can see what they look like. The labels tell their names and give additional information about each part.
- 2. Explain Scientific Text
 - What It Says Computers on the Station use a lot of energy. The energy is made by solar cells and stored in batteries.
 - What It Means Solar cells collect sunlight and change it to electricity. They store the energy in batteries for times when the Station does not receive sunlight.
 - What It Says and What It Means The Station uses small engines to push the Station into a higher orbit. Even though the Station is far away from Earth, it is still affected by the pull of Earth's gravity.
- 3. **Synthesize** Living on the Space Station, astronauts learn a lot about how to live in space. They learn how to keep safe by exercising and eating well.
- 4. Generalize The program is complicated, so it is easier to complete with the help of many countries. It also makes sense because space does not belong to any one country.

Connect Across Texts Practice Master SG7.14

1. Lighter on the Moon describes why weight is different on Earth and on the moon. Exploring Space describes ideas and technology that help scientists reach the moon and investigate space. The International Space Station shows how countries work together to create a permanent research station in space. Stars and Galaxies helps readers understand Earth's position in the universe.

BL Exploring Space

Practice Master SG7.11

- 1. Analyze a Science Report The introduction describes the first time people landed on the moon. The rest of the book gives information that helps readers understand how this accomplishment was possible.
- 2. Explain Scientific Text
 - What It Says The four inner planets are closer to the sun. They are mostly solid and rocky. The four outer planets are farther from the sun. They are mostly made of gases.
 - What It Means Classifying inner and outer planets makes sense because planets in each group share many things.
 - What It Savs and What It Means Multistage rockets helped astronauts reach the moon. As a rocket uses fuel, it drops a stage and gets lighter, which makes it easier to push farther into space.
- 3. **Synthesize** Robots go places in space that would be unsafe for astronauts. Astronauts do experiments and guide ships.
- 4. Generalize Tools include rockets, space suits, telescopes, and different kinds of satellites.

AL Stars and Galaxies

Practice Master SG7.13

- 1. Analyze a Science Report The text defines light-years, the unit used to measure distances in space. A diagram shows the distance between Earth and the sun to illustrate 8 "light-minutes."
- 2. Explain Scientific Text
 - What It Says First, gravity pulls materials into a ball, which contracts and heats up. Hydrogen atoms come together to form helium and give off energy. When the energy runs out after billions of years, the outer layers expand, and the star cools and dies.
 - What It Means Students should describe the life stages of a star in their own words
 - What It Says and What It Means The big bang theory suggests that a dense hot universe began to expand in a violent rush, and the universe is still expanding.
- 3. Synthesize Earth is one of the inner planets in our solar system, which is part of the Milky Way Galaxy, which, in turn, is one of billions of galaxies.
- 4. Generalize Telescopes on Earth and in space help scientists collect information about light and other data from distant stars and galaxies.
- 2. Students might point out that many of the topics related to space exploration, such as gravity, are important every day. We are also aware of and affected by things that happen in the universe.
- 3. Scientists need to understand gravity, the use of energy in space, how to live in space, and what creates stars and galaxies.

Week 3 Practice Master Answer Key

Story Plot
Use a pint days much seem along pur book as you med.

Contained

C

Practice Master SG7.16

Plot Diagram Practice Master SG7.16

Problem: After going to the planetarium, Richie wants to explore space. Events: He builds a rocket on the roof. He closes his eyes and the rocket blasts off. He is weightless in outer space. A rocket tows him to the moon. He explores. Turning Point: He feels lonely on the moon and wants to go home.

Solution:

Richie returns home. He opens his eyes and goes downstairs to breakfast.

OL Star Jumper*

Problem:

Alex wants to escape from his pesky younger brother, Jonathan.

Events:

Alex builds *Star Jumper*. Jonathan finds out. Alex builds a Micro-Blaster and shrinks Jonathan, but then returns him to normal size. Alex builds the Duplicator and makes a copy of himself.

Turning Point:

Jonathan gets in and makes a lot of copies of himself, too, creating enormous confusion.

Solution:

Alex manages to make all of the copies disappear and has fun playing with his younger brother, though he still plans to escape later.

BL Stanley in Space*

Problem: Tyrrans contact Earth because they have run out of food. Events: The President sends the Lambchops to Tyrra. They meet the tiny Tyrrans and find out about the food shortage on Tyrra. Turning Point: The Lambchops decide to help the Tyrrans by bringing them back to Earth. Solution: They remove enough things from the ship so all of the Tyrrans can come to Earth while the food on their planet

AL The Space Mission Adventure*

Problem:

grows back.

Ziggy finds a mysterious green stone that he thinks might be from space.

Events

Ziggy and the Black Dinosaurs arrive at Space Camp. They meet other campers and ride the multi-axis trainer. Ziggy finds a stone and shows it to his friends. They wonder where it came from.

Turning Point:

Ziggy meets Ms. Washington and asks her about the mysterious stone.

Solution:

It is the stone from a piece of jewelry. Ms. Washington lost it the night before at a party at the space center.

^{*}Possible responses for Part 1 and Part 2 of the book are shown.

^{*}Possible responses for Part 1 and Part 2 of the book are shown.

XXX Analyze Books

BL Richie's Rocket

Practice Master SG7.17

- 1. **Analyze Dialogue** Richie is curious and enthusiastic. He is energetic and likes exploring new places.
- 2. Comprehend Plot
 - **Problem** Richie wants to explore space.
 - Events Richie closes his eyes. Then, the rocket blasts off and Richie goes to space. An astronaut sees Richie and agrees to tow his rocket to the moon. Then, Richie explores the moon.
 - Turning Point Richie is lonely on the moon because there is no one else there.
 - **Solution** Richie opens his eyes and is back home. He is happy to be there and goes down to breakfast.
- 3. **Synthesize** Richie imagines that he visits space. He probably falls asleep and dreams that the rocket blasts off.
- 4. Generalize Like a trained astronaut, Richie is curious about space and wants to find out what it is like to be there.

OL Star Jumper PART 1

Practice Master SG7.19

- 1. Analyze Dialogue Alex has a sarcastic sense of humor. Jonathan asks a lot of questions. Alex is interested in space exploration. Jonathan is interested in castles.
- 2. **Analyze Dialogue** The dialogue between Alex and his brother shows how Jonathan tries to get Alex to open his door. Their words tell what they are doing.
- 3. Comprehend Plot
 - **Problem** Alex's biggest problem is his pesky little brother, Jonathan.
 - Events Alex makes a spaceship, a spacesuit, and an "atom slider" engine to get the ship out of the house.
- 4. **Synthesize** Yes, most of Alex's inventions do what he plans for them to do, although they also create confusion.
- 5. **Generalize** Alex bases his inventions on scientific truths. For example, he knows that there is no oxygen in space, so he invents an oxygen generator he can use when he goes there.

BL Stanley in Space PART 1

Practice Master SG7.18

- 1. **Analyze Dialogue** Mr. And Mrs. Lambchop like quiet, peaceful days. Stanley has a sense of humor. Arthur worries.
- 2. **Compare Dialogue** The Tyrrans talk very much like people of Earth. Captain Ik is angry and wants to fight people. They use some words, like chap, that are more common in England.
- 3. Comprehend Plot
 - **Problem** The President has received a message from a planet called Tyrra and needs someone to go there.
 - Events He sends the Lambchop family in a spaceship called Star Scout. They meet the Tyrrans, who are tiny.
- 4. **Synthesize** The family relationships and the way people react are believable. The details of space travel and the way the family is selected to go to outer space are not.
- 5. Generalize Students might suggest that the Lambchops are good astronauts because they are curious and reflect average people, or they might say they have not had enough training to be good astronauts.

AL The Space Mission Adventure PART 1

Practice Master SG7.20

- 1. **Analyze Dialogue** Ziggy is energetic, funny, and enjoys surprising people. He has an active imagination. The other members of the club are amused by Ziggy.
- 2. Compare Dialogue The other students at Space Camp are also interested in exploring space. Cubby knows a lot of facts and enjoys sharing them.
- 3. Comprehend Plot
- **Problem** Ziggy finds a mysterious green object on the surface of the artificial moon.
- Events The Black Dinosaurs go to Space Camp. They meet the students and counselors there, and ride the multi-axis trainer.
- 4. **Synthesize** Space Camp combines educational activities, such as films, with entertaining activities, such as riding in the multi-axis trainer.
- 5. **Generalize** Astronauts might enjoy sharing their experiences with young people; they may hope to inspire others to become astronauts.

Connect Across Texts Practice Master SG7.21

- 1. Richie in Richie's Rocket and Alex in Star Jumper create spaceships of cardboard and imagine launching into space. Stanley's family members become real astronauts in Stanley in Space, using imagination to help solve problems. The Black Dinosaurs in The Space Mission Adventure use their imaginations to think about space and to work as a team.
- 2. Reading fiction helps you understand what is and isn't possible in space exploration. For example, many events in Richie's Rocket, Stanley in Space, and Star Jumper are impossible, but the events in The Space Mission Adventure could really happen.
- 3. A good astronaut is curious and willing to learn, and also works well on a team.

Week 4 Practice Master Answer Key

Story Characters

Story Characters

See A Story Characters

Chandre Character Works which is been considered to the cons

Practice Master SG7.23

Character Chart Practice Master SG7.23

BL Moonshot

Character	What the Character Does	What the Character Says	What It Shows
Neil Armstrong	He rides to the moon; he walks on the moon.	He is calm when he says "The <i>Eagle</i> has landed."	Armstrong is a trained astronaut who does his job well. He takes his job seriously and knows that it is important.

BL Stanley in Space*

Character	What the Character Does	What the Character Says	What It Shows
Stanley	He goes to Tyrra; he comes up with the idea of bringing the Tyrrans to Earth to save them.	He is excited by things he experiences; he does not complain as much as his brother, Arthur.	Stanley is smart and adventurous; he is also caring and likes to solve problems.

OL Star Jumper*

Character	What the Character Does	What the Character Says	What It Shows
Alex	He builds a Micro- Blaster and a Duplicator; he rescues Jonathan.	He brags about his accomplishments	He is smart and very sure of himself; he also cares about his brother, even though he says he doesn't.

^{*}Possible responses for Part 1 and Part 2 of the book are shown.

AL The Space Mission Adventure*

Character	What the Character Does	What the Character Says	What It Shows
Ziggy	He goes on the multi-axis trainer; he contributes to the team mission; he talks with Ms. Washington.	He has a good sense of humor; he talks a lot about his dreams.	Ziggy is energetic and enthusiastic about things.

^{*}Possible responses for Part 1 and Part 2 of the book are shown.

XXX Analyze Books

BL Moonshot

Practice Master SG7.24

1. **Analyze Dialogue** Armstrong sends a message to Mission Control, "The Eagle has landed." He sounds very calm, which shows he is well prepared and takes his job seriously.

2. Describe Characters

- Characters Neil Armstrong, Michael Collins, Buzz Aldrin; scientists at Launch Control in Florida and Mission Control in Houston; a large audience on Earth
- What Characters Do The astronauts put on heavy space suits; they strap themselves into the Columbia.
- What Characters Say Systems are "go" for the launch.
- What It Shows Everyone on the team must be ready before the launch begins.
- 3. **Synthesize** Wearing heavy spacesuits on Earth is awkward; being weightless can also be awkward, and doing simple things like sleeping and eating are difficult. But, the experience is also exciting because it is so unusual.
- 4. **Generalize** It takes a large team-including astronauts, scientists, and others-to make sure the three men travel safely into space.

BL Stanley in Space PART 2

Practice Master SG7.25

1. **Analyze Dialogue** President Ot explains how the food of Tyrra was destroyed. His words tell why they are all starving.

2. Describe Characters

- Characters Captain Ik and President Ot
- What Characters Do Captain Ik tries to attack the Lambchops; President Ot talks to them calmly and explains why Tyrra is in trouble.
- What Characters Say Captain Ik: "Surrender, Earth people." President Ot: "The fact is, we're having a . . . a crisis, actually."
- What It Shows Ik has a bad temper and tries to solves things with force. Ot is more polite and tries to solve things by talking about them.
- 3. **Synthesize** The Lambchops decide to bring all of the Tyrrans back to Earth while the food grows back on their planet.
- 4. Generalize Rockets can only carry a certain amount of weight, so it is important to know how much everything in a rocket weighs.

OL Star Jumper PART 2

Practice Master SG7.26

- 1. **Analyze Dialogue** Zoe says that Alex's math looks "advanced," so she might be impressed by Alex. But, she does not say very much else and ends the conversation quickly, so she might not be impressed.
- 2. Describe Characters
 - Characters Alex and Jonathan are brothers.
 - What Characters Do Alex invents a Micro-Blaster and shrinks his brother; he invents the Duplicator to make copies of himself. Jonathan watches his brother working; he gets into the Duplicator and makes copies of himself.
 - What Characters Say Alex: "Holy Copernicus! Please don't let the tri-fibrillator short-circuit." Jonathan: "I'm telling!"
 - What It Shows Alex is smart and likes to use scientific language. Jonathan likes to watch his big brother and complain to his parents.
- 3. **Synthesize** Alex believes that all of his inventions work; his mother only sees the mess they create and does not know about any of his adventures.
- 4. Generalize Space travel requires advanced tools, such as space suits, engines, and weapons to protect astronauts.

AL The Space Mission Adventure PART 2

Practice Master SG7.27

1. Analyze Dialogue She says that Ziggy is creative and a dreamer, both of which are good traits for an astronaut.

2. Describe Characters

- Characters Both Ziggy and Ms. Washington are enthusiastic.
- What Characters Do Ziggy finds a strange object and dreams about what it might be; he lets his imagination run wild. Ms. Washington talks to students openly about what it is like to be an astronaut; she loses the stone from a pin.
- What Characters Say Ziggy: "Zowie! I have found my destiny!" Ms. Washington: "You are a dreamer, Ziggy, and that's probably the best thing in the world you can be."
- What It Shows Ziggy is open, enthusiastic, and silly. Ms. Washington encourages people to dream and reach their potential.
- 3. Synthesize The Black Dinosaurs are successful on their mission because they work together, and each team member does his job well.
- 4. **Generalize** Space Camp teaches campers a lot about exploring space. It could also inspire them to get more training and follow their dreams.

Connect Across Texts Practice Master SG7.28

- 1. The events in Moonshot and The Space Mission Adventure are realistic. The events in Stanley in Space and Star Jumper could not happen in real life.
- 2. Reading fiction can help you learn about teamwork and how to apply science to solve problems.
- 3. Tools, such as rockets, spacesuits, simulators, and oxygen tanks, help astronauts explore space safely.

Unit 7 Independent Reading Fiction & Nonfiction

Leveled Book Finder NGReach.com



Recommended Books

	Fiction About Space	Nonfiction About Space
	Cole, Joanna. <i>The Magic School Bus Lost in the Solar System</i> . Scholastic, 1990. Daley, Michael J. <i>Space Station Rat</i> . Holiday House, 2005.	Florian, Douglas. Comets, Stars, The Moon, And Mars: Space Poems And Paintings. Harcourt, 2007.
	Leonard, Jane. <i>Seeing the Sky</i> . National Geographic, 2006.	Korb, Rena B. Groovy Gravity. Magic Wagon, 2007.
	Yolen, Jane. Commander Toad and the Big Black Hole. 1983. Reprint: G. P. Putnam's Sons, 1996.	Oxlade, Chris. Why Why Why Do Astronauts Float In Space? Mason Crest Publishers, 2009.
BL		Murphy, Patricia. <i>Exploring Space with an Astronaut</i> . Enslow Publishers, 2004.
	Johnson, David. <i>Trapped in Space</i> . 2003. Reprint: Stone Arch Books, 2007. Krensky, Stephen. <i>The Great Moon Hoax</i> . Lerner, 2011.	Berger, Melvin. <i>Discovering Mars: The Amazing Story of the Red Planet</i> . Scholastic, 1997. COMMON CORE EXEMPLAR
	Moore, Eva. Space Explorers. Scholastic, 2000.	Jouhar, Bilal. <i>Our Place in Space</i> . National Geographic, 2006.
	Yolen, Jane. Commander Toad and the Planet of the Grapes. Puffin, 1996.	Waxman, Laura Hamilton. <i>Exploring Black Holes</i> . Lerner, 2012.
BL		Zappa, Marcia. <i>Space Stations</i> . ABDO Publishing Company, 2011.
	Bennett, Jeffrey. <i>Max Goes to the Moon</i> . Publishers Group West, 2003. Dahl, Roald. <i>Charlie and the Great Glass Elevator</i> . 1972. Reprint: Viking Penguin, 2007.	Bailey, Jacqui. <i>Up, Down, All Around: A Story of Gravity</i> . 2003. Reprint: Picture Window Books, 2006. Osborne, Will & Mary Pope. <i>Space</i> . Random House, 2002.
OF)	L'Engle, Madeleine. A Wrinkle in Time. 1962. Reprint: Square Fish, 2007. COMMON CORE EXEMPLAR NEWBERY MEDAL BOOK Montgomery, R. A. Space and Beyond. ChooseCo, 2005.	Rau, Dana M. Space Exploration. Compass Point Books, 2003. Tomacek, Steve. Moon. National Geographic, 2005.
	Cameron, Eleanor. <i>The Wonderful Flight to the Mushroom Planet.</i> 1954. Reprint: Little, Brown, & Co., 1988.	Dyson, Marianne J. <i>Home On The Moon: Living On A Space Frontier.</i> National Geographic, 2003.
	 Hawking, Lucy & Stephen. George's Cosmic Treasure Hunt. Simon & Schuster, 2009. Hawking, Lucy & Stephen. George's Secret Key to the Universe. Simon & Schuster, 2007. Stannard, Russell. The Time and Space of Uncle Albert. Faber Childrens, 2005. 	Floca, Brian. <i>Moonshot: The Flight of Apollo 11.</i> Simon & Schuster, 2009. COMMON CORE EXEMPLAR Green, Dan. <i>Astronomy: Out of This World!</i> Kingfisher, 2009. Schyffert, Bea Uusma. <i>The Man Who Went to the Far Side of the Moon.</i>
AL	Author Study: Dianna Hutts Aston	Chronicle Books, 2003. Author Study: Anastasia Suen



Author Study: Dianna Hutts Aston A Butterfly Is Patient. Chronicle Books, 2011. **Dream Something Big: The Story Of The Watts Towers.** Dial, 2011. An Egg Is Quiet. Chronicle Books, 2006. A Seed Is Sleepy. Chronicle Books, 2007.



Author Study: Anastasia Suen Doctors Without Borders. Rosen Publishing Group, *Man on the Moon.* 1997. Reprint: Viking Penguin, 2002.

The Story of Soccer. Rosen Publishing Group, 2002. Wired. Charlesbridge Publishing. 2007.

Contents at a Glance

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Writing, Revising, and Editing Test	A7.8			
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Name

Oral Reading Assessment

Unit 7

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What would you think if you suddenly saw a new object in the night sky? Would you be afraid of it? Would you want to learn more about it? People have always wondered about bright objects in the sky. In ancient times, people watched the sky carefully. They noticed that some lights appeared suddenly and had what looked like long tails. People didn't know what to think of these objects that didn't move regularly through the sky like the stars, the moon, and the planets.

Today, we understand more about these strange objects. We call them comets. They are huge flying "dirty snowballs" made of dust and ice. Most scientists believe that comets are made up of scraps of material left over after the planets were formed.

The orbit of most comets in our solar system is very long and lopsided, and these comets can travel very fast through space when they are near the sun. That's why comets seem to appear suddenly. It can be many years from one encounter of a comet with the Earth to the next.

As a comet nears the sun, pieces of the comet break away or are vaporized (turned into gas). The gas streams away from the sun, looking like a tail. Each comet actually has two tails: one tail made of gas and another made of dust. The tail that is made of dust is shorter, and curves a little around the comet. The tail that is made of gas is straight and can stretch for millions of miles!

How will you feel the next time you see a new light in the night sky? If you see a tail on the light, it might be a comet. Then you can look up information about it. You might even see the same comet later in your lifetime, and the next time, you won't be so surprised.

A7.1

Oral Reading Assessment

Unit 7

2006	5 Hasbrouck	र & Tindal Ora	2006 Hasbrouck & Tindal Oral Reading Fluency Data	ency Data
Grade	Grade Percentile	Fall WCPM	Winter WCPM Spring WCPM	Spring WCPM
	06	145	166	180
	75	119	139	152
4	90	94	112	123
	25	89	28	86
	10	45	61	72

words correct per minute (wcpm)

number of errors

words attempted in one minute

2006	i Hasbrouck	र & Tindal Ora	2006 Hasbrouck & Tindal Oral Reading Fluency Data	ency Data
Grade	Percentile	Fall WCPM	Winter WCPM Spring WCPM	Spring WCPM
	06	145	166	180
	75	119	139	152
4	90	94	112	123
	25	89	87	86
	10	45	61	72

	Intonation Expression	2 1 4 3 2 1	to match all of Reads with appropriate feeling for all content.	to match some Reads with appropriate feeling for most content.	but does not Reads with appropriate ent. feeling for some content.	ge pitch. Does not read with feeling.
ırics	Inton	4 3	Changes pitch to match all of the content.	Changes pitch to match some of the content.	Changes pitch, but does not match the content.	Does not change pitch.
Oral Reading Fluency Rubrics	Phrasing	4 3 2 1	Consistently pauses at all appropriate places in the text.	Frequently pauses at all appropriate places in the text.	Occasionally pauses while reading the text.	Rarely pauses while reading the text.
0	Automaticity	4 3 2 1	Reads smoothly and automatically. Pace is consistent.	Reads most words automatically but still pauses to decode some words. Pace varies but is mostly consistent.	Pauses to decode many words. Pace is slow with occasional stops and starts.	Can only read some high frequency words automatically. Pauses to decode all others or skips words. Pace is very slow and irregular with many stops and starts.
		Circle Score	4	æ	2	-

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Accuracy and Rate

Oral Reading Assessment



Retelling Rubric					
Circle Score	4 3 2 1				
4	Student provides an accurate and complete retelling of the passage that includes the main idea and supporting details presented in a logical order.				
3	Student's retelling is accurate and coherent but some elements and supporting details may be missing.				
2	Student provides some details from the passage, but the retelling does not demonstrate understanding of the main idea and lacks coherence. Or, student may identify the topic without any elaboration.				
1	Student is not able to retell the passage or retells it inaccurately.				

Observations and Notes:

Oral Reading Assessment Wrap-up

 Ask the student about his or her reading. You can prompt the student with questions such as:

Did you have any problems reading this passage?

If yes: What problems did you have?

What did you do when you didn't know a word?

• Share the positive things you noticed about the student's reading, for example:

I noticed that you read with a lot of expression.

Your reading is getting smoother. You don't stop as often as you used to.

• Make suggestions about what improvements are needed, for example:

Try to read more smoothly without stopping between words.

• If you asked the student to retell the story, make notes about what the student needs to improve, e.g., distinguish the main idea from details, or present events in the proper sequence.

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Grade 4 Assessment

A7.3

Reading Comprehension Test

Unit 7, Week 1

Directions: Read the article. Then answer the guestions about the article.



People in space need to eat, of course. However, it is not easy to eat when your food keeps floating away from you! Over the years, scientists have learned a lot about how to make food that can stay fresh for a long time and that will not float away.

When space travel first began, the food choices were limited. One type of food was a paste in a tube that had to be squeezed into their mouths. They also ate dried foods and powdered foods. Although easy to eat, these foods did not taste very good.

Astronauts complained about the food, so changes were made. Soon there were foods to eat with a fork or spoon. Astronauts also had more foods to choose from.

Today, space foods are still easy to eat, but now they taste good too. Astronauts enjoy soups and salads. They have many different main dishes, such as chicken and spaghetti. They snack on fresh fruits and vegetables, like oranges and carrot sticks. They even eat chocolate cake for dessert! Now when astronauts eat a meal in space, it's almost like they are eating at home, but with an amazing view!



An astronaut enjoys a tortilla in space.

GO ON

Reading Comprehension Test

Unit 7, Week 1

- 1 Today's space food is **similar** to early space food because it
 - (A) is easy to eat.
 - ® includes tortillas.
 - © is a paste in a tube.
 - (D) includes fresh vegetables.
- 2 Today's space food is **different** from early space food because it
 - (A) is powdered.
 - [®] is easy to eat.
 - © tastes good.
 - D floats away.

- 3 Today's space food is eaten with a fork or spoon. From this, you can conclude that the food
 - A needs to be cooked.
 - [®] looks like food on Earth.
 - © is made fresh each day.
 - ① floats around the spacecraft.
- Most astronauts probably think that today's space food is
 - A not healthy.
 - [®] not expensive.
 - © easy to prepare.
 - njoyable to eat.

Score _____/4

DONE!

Vocabulary Test

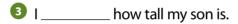
Unit 7, Week 1

Directions: Choose the answer that completes the sentence correctly.

- 1 The boy and girl are different ______.
 - A rituals
 - [®] heights
 - © commands
 - D adventures



- 2 The car _____ quickly.
 - (A) spreads
 - **B** interacts
 - © accelerates
 - (D) decomposes



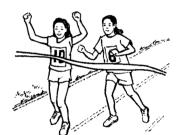
- (A) introduce
- [®] measure
- © generate
- D breathe



- 4 This runner's ______ is very fast.
 - (A) motion
 - **B** interest
 - © material
 - (D) elevation



- 5 These runners move at top _____
 - (A) prey
 - ® mold
 - © speed
 - D balance



GO ON

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Grade 4 Assessment

A7.6

Vocabulary Test

Unit 7, Week 1

Directions: Choose the answer that completes the sentence correctly.

- 6 To _____ a problem means to figure it out.
 - (A) suggest
 - ® express
 - © invade
 - © solve
- 7 A _____ gives size comparisons.
 - A port
 - ® force
 - © scale
 - ① ritual
- 8 _____ is the amount of space between things.
 - A Distance
 - **B** Treasure
 - © Memory
 - D Power

- The _____ of an action is its speed.
 - (A) globe
 - ® chart
 - © tool
 - ① rate
- An _____ is an amount that is usual for a group.
 - (A) artifact
 - [®] average
 - © exploration
 - environment

Score _____/10

DONE!

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Grade 4 Assessment

A7.7

Writing, Revising, and Editing Test

Directions: Read the paragraph. Then answer the questions.

Animals like the cheetah can travel _____1 ___ fast. Other animals, however, _____2 ___ seem to be in any big hurry. You're ____3 ___ thinking "snails," right? Snails do crawl ____4 ___ slowly, but even some large animals prefer to take their time. One of the slowest mammals is the tree sloth. Sloths ____5 ___ spend many years in the same tree. They move so ____6 ___ that algae grow on their fur!

- Choose the answer that goes in Blank 1.
 - (A) miles
 - B amazing
 - © awesome
 - (D) incredibly

- 2 Choose the answer that goes in Blank 2.
 - (A) not
 - ® true
 - © never
 - D move

GO ON

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Grade 4 Assessment

A7.8

Writing, Revising, and Editing Test

Unit 7, Week 1

- 3 Choose the answer that goes in Blank 3.
 - (A) like
 - B slowest
 - © probably
 - D guessing
- 4 Choose the answer that goes in Blank 4.
 - (A) quite
 - ® slime
 - © gentle
 - D minutes

- **5** Choose the answer that goes in Blank 5.
 - (A) lazy
 - ® often
 - © regular
 - (D) common
- 6 Choose the answer that goes in Blank 6.
 - (A) small
 - ® relaxed
 - © inactive
 - sluggishly

GO ON

Writing, Revising, and Editing Test

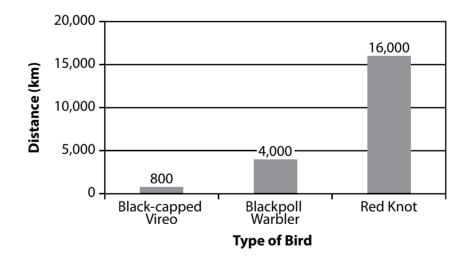
7 You are writing a report on bird migration for a class science project. Read the short article and study the graph. Then write a paragraph using information from both sources.

Many North American birds escape the harsh northern winters by flying south. Some birds, like the black-capped vireo, nest in the southern United States and winter in Mexico, so they need to fly only a short distance.

The blackpoll warbler has a much longer migration. From its nesting grounds in the northern U.S. and Canada, it flies nonstop every year to its winter home in South America. That is between three and four days of nonstop flying!

The longest-traveling North American birds are shore birds, like the red knot, that nest in northern Canada and fly all the way to the southern tip of South America.

Migration Distances of North American Birds



Score
_____/6 multiple-choice
______/4 writing

DONE!

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Grade 4 Assessment

A7.10

Reading Comprehension Test

Unit 7, Week 2

Directions: Read the science article. Then answer the questions about the article.

Stars: Some Are Hot and Some Are Not

We can see hundreds, even thousands of stars in the night sky. Though they seem to be nearby, the closest star is 24 *trillion* miles away! From that distance, stars can all look alike. In truth, they can be as different from each other as a starfish is from an elephant.

Temperature

Take temperature, for example. Our Sun is almost 11,000 degrees on its surface and an astonishing 27 million degrees at its core. There are many other stars like the Sun. Scientists call a group of stars like this a family.

Other families of stars are not very hot at all. They are either fading out or never warmed up in the first place. These stars cool over time, and some of them are only as warm as your oven when it bakes cookies. The stars in this family are called brown dwarfs.

Exciting Discovery

Since a brown dwarf gives off weak light, it's almost impossible to see with a regular telescope. In 2011, using special infrared equipment, scientists discovered the coldest stars ever found. These fading stars are called Y dwarfs. Your body temperature is around 98.6 degrees. That's about how cool the Y dwarfs are.

Several of these newly discovered stars are pretty close to Earth. Michael Cushing is one of the scientists who helped find these cool stars. He said that it was "like discovering there's a hidden house on your block that you didn't know about. It's thrilling to me to know we've got neighbors out there yet to be discovered."

The coldest star that Cushing and his co-workers have found is below 80 degrees. How cool is that?

GO ON

Name	Date
Name	Date

Reading Comprehension Test

Unit 7, Week 2

- 1 The title of the article can help you understand that
 - A stars are very far away.
 - **B** the Sun is a very hot star.
 - © scientists are discovering new stars.
 - ① stars have very different temperatures.
- 2 In the part of the article under "Exciting Discovery," what is the most important idea?
 - Brown dwarf stars give off weak light.
 - ® Some Y dwarfs are pretty close to Earth.
 - © Scientists have found the coldest stars ever.
 - Special equipment is needed to see Y dwarfs.
- 3 Which of these is a **fact**?
 - A Discovering new stars is exciting.
 - ® From Earth, most stars look alike.
 - © Scientists group stars into families.
 - ① It's thrilling to find new stars close to Earth.
- 4 Which of these is an opinion?
 - The surface of the Sun is hotter than you can imagine.
 - B The coldest star ever found is below 80 degrees.
 - © Scientists discovered Y dwarf stars in 2011.
 - D There are many other stars like the sun.

- 5 The author says that stars can be "as different from each other as a starfish is from an elephant." What facts from the article support this opinion?
 - Scientists have known about brown dwarfs but just recently discovered Y dwarfs.
 - (B) All brown dwarfs are cool, but some are fading while others never warmed up.
 - © The Sun is 27 million degrees while Y dwarfs can be less than 80 degrees.
 - Y dwarf stars are even cooler than brown dwarfs.
- 6 Which of these supports the author's opinion that scientific discovery is exciting?
 - Stars seem close but are trillions of miles away.
 - B Some stars are as cool as an oven used to bake cookies.
 - © Michael Cushing thinks of the Y dwarfs as Earth's neighbors.
 - Michael Cushing describes the discovery of Y dwarfs as thrilling.



DONE!

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Grade 4 Assessment

A7.12

Vocabulary Test

Unit 7, Week 2

Directions: Read the question. Choose the best answer.

1 What does land mean in this sentence?

The astronauts land on the moon.

- (A) a country
- [®] the ground
- © get something
- D come down to the surface

2 What does watch mean in this sentence?

We watch the rocket ships take off.

- (A) look at
- B protect
- © time when a person guards
- D a clock to wear on your arm

Directions: Read the questions. Use the dictionary entry to choose the best answer.

light (lit) noun 1 energy from the sun, stars, lamps, and fires
2 something that gives off light adjective 3 not heavy, weighing only a little verb 4 to start something burning

3 Which meaning of <u>light</u> is used in this sentence?

Brenda will <u>light</u> the campfire at sunset.

- Meaning 1
- B meaning 2
- © meaning 3
- D meaning 4

Score _____/4 4 Which meaning of <u>light</u> is used in this sentence?

Sam was surprised the trunk felt so light.

- (A) meaning 1
- B meaning 2
- © meaning 3
- D meaning 4

DONE!

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Grade 4 Assessment

A7.13

Writing, Revising, and Editing Test

Directions: Read the paragraph. Then answer the questions.

Though race cars are fast, they are standing still compared to things flying through space. Earth travels about 22,000 miles per hour around the sun. As fast as that sounds, it travels ____1__ than most rockets. The vehicle dashing ____2_ through the solar system is the New Horizons spacecraft on its way to Pluto. It travels even ____3__ than Earth does—about 36,000 miles per hour! Moving even ___4__ than rockets are space rocks, called meteoroids. Some fall to Earth every year during a display of "shooting stars" called the *Orionids*. These meteoroids zip along at around 148,000 miles per hour. The ___5__ condition for watching the Orionids is a clear sky. You can see the shooting stars ___6__ if you can find an area with no city lights. None of these objects can outrun light, at about 186,000 miles per second. If you could run that fast, you could go around Earth seven times in less than a second!

- 1 Choose the answer that goes in Blank 1.
 - A least swift
 - B less swiftly
 - © less swifter
 - D least swiftly

- 2 Choose the answer that goes in Blank 2.
 - A rapidest
 - **B** rapidliest
 - © the most rapidly
 - (D) the more rapidly

GO ON

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Grade 4 Assessment

A7.14

Writing, Revising, and Editing Test

- 3 Choose the answer that goes in Blank 3.
 - (A) quicklier
 - B quickerly
 - © most quickly
 - D more quickly
- 4 Choose the answer that goes in Blank 4.
 - (A) faster
 - B fastest
 - © fastlier
 - more fastly

- **5** Choose the answer that goes in Blank 5.
 - (A) best
 - **B** bestest
 - © goodest
 - D most good
- 6 Choose the answer that goes in Blank 6.
 - (A) weller
 - [®] better
 - © gooder
 - D more well

Read this paragraph from a student report. Even though the sentences are correct, they are too long. The reader gets lost before he or she gets to the end. Rewrite the paragraph, breaking up the writing into sentences that are shorter and easier to understand.

There are many birds, such as the red-tailed hawk and the peregrine falcon, that can move faster than a cheetah, which is a member of the cat family that includes lions, tigers, and panthers, and is the fastest of all land animals. Cheetahs have beautiful spotted fur that helps them blend with their surroundings as they hunt, and when they're hunting they can reach speeds of up to 70 miles per hour, which is even faster than a lion!

Score
/6 multiple-choice
/ 4 writing

DONE!

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Grade 4 Assessment

A7.15

Reading Comprehension Test

Unit 7, Week 3

Directions: Read the story. Then answer the questions about the story.

The Rocket

Mrs. Vander taught history at Croft Middle School. She did more than just recite dates and give tests. She told stories that brought history to life. The lesson about the first landing on the moon by the Apollo 11 astronauts Buzz Aldrin and Neil Armstrong was especially interesting. Mrs. Vander ended class with her own memory of that event.

"As you now know," Mrs. Vander began, "the first moon landing was on July 20, 1969. In my hometown, it was a hot day. That night, the adults gathered around the television to watch the landing. My older brother Thad and I went out to the backyard. People sometimes said Thad was an accident waiting to happen. So it probably wasn't a good idea that Thad had built a rocket in honor of the event."

Mrs. Vander's students leaned forward, listening to every word. They were already drawn into the story.

"Thad proudly showed me his rocket. Then he lit the fuse and the two of us ran off into the bushes. We stood there waiting, but nothing happened. Thad was just about to see what might have gone wrong when we heard our names being called. We ran inside to watch the moon landing. As we stood before the television screen, we saw a flash of light outside. Then we heard the scream of a rocket. Thad's rocket had blasted off after all!"

Mrs. Vander paused for extra drama. Her students sat on the edge of their seats. They were soaking up her every word.

Reading Comprehension Test

Unit 7, Week 3

"My brother looked at me and grinned. I wasn't sure which event he was happier about, the moon landing or the launch of his homemade rocket. As it turned out, only pieces of Thad's rocket were left. Still, there was so much to celebrate that night. Nothing could dim our excitement."

As if on cue, the bell rang. Mrs. Vander's students gathered their things. They left for their next class, their minds filled with thoughts of a historic moon landing and a homemade rocket.

- 1 What is the problem in Mrs. Vander's story?
 - (A) It was hot on the night of July 20, 1969.
 - [®] Thad's rocket failed to launch right away.
 - © The adults were inside watching television.
 - People said Thad was an accident waiting to happen.
- What is the turning point in the story?
 - A Thad lit the fuse of his rocket.
 - B Thad and his sister hid behind the bushes.
 - © Thad wanted to see what was wrong with his rocket.
 - D Thad and his sister saw a flash and heard the rocket scream.

- 3 Like Mrs. Vander's students, when most people hear a good story, they
 - A study history.
 - [®] pay attention.
 - © share memories.
 - want to celebrate.
- People said Thad was an accident waiting to happen, and he had problems with his rocket. This suggests that —
 - (A) things often go wrong for Thad.
 - [®] Thad knows many people in his town.
 - © the moon landing was really important to Thad.
 - D Thad wants to build rockets when he grows up.

Score ______/4

DONE!

Vocabulary Test

Unit 7, Week 3

Directions: Choose the answer that completes the sentence correctly.

- 1 This is an _____
 - (A) element
 - **B** astronaut
 - © experiment
 - (D) archaeologist



- 2 This is a _____
 - (A) craft
 - **B** planet
 - © border
 - (D) compass



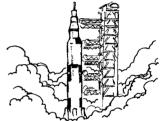
- 3 This globe shows the ______of Earth.
 - (A) competition
 - [®] discovery
 - © rotation
 - (D) ability



- 4 The space shuttle ______, or moves around, the earth.
 - (A) orbits
 - ® trades
 - © contains
 - modifies



- 5 The rocket _____ into space.
 - (A) launches
 - **B** imagines
 - © performs
 - (D) investigates



GO ON

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Grade 4 Assessment

A7.18

Vocabulary Test

Unit 7, Week 3

Directions: Choose the answer that completes the sentence correctly.

- 6 To _____ something is to stop it after a set amount of time.
 - (A) locate
 - ® examine
 - © interpret
 - (D) limit
- Something that never changes is ______.
 - (A) constant
 - **B** coastal
 - © humid
 - D native
- 8 _____ is the use of science to solve problems.
 - A Pottery
 - **B** Exercise
 - © Height
 - ① Technology

- The _____ of an object is the most it can hold.
 - (A) capacity
 - **B** migration
 - © conservation
 - (D) hemisphere
- is a slowing force.
 - A Population
 - **B** Navigation
 - © Resistance
 - D Language

Score _____/10

DONE!

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Grade 4 Assessment

A7.19

Writing, Revising, and Editing Test

Directions: Read the paragraphs. Then answer the questions.

When I was a little boy, my grandmother and I gazed at the stars. We lived in a small country town ____1 __ the sky was nice and dark. "What's the name of that big red one, Grandma?" I would ask. I didn't know the reason ____2 __ she always knew, but she did!

"That's Antares," she might say.

Before Grandma died, she took me to the same observatory <u>3</u> she learned about the night sky. Now, at night <u>4</u> it is clear, I look up at the stars and think of Grandma.

- 1 Choose the answer that goes in Blank 1.
 - (A) why
 - ® when
 - © where
- 2 Choose the answer that goes in Blank 2.
 - (A) why
 - [®] when
 - © where

- 3 Choose the answer that goes in Blank 3.
 - (A) why
 - [®] when
 - © where
- 4 Choose the answer that goes in Blank 4.
 - (A) why
 - [®] when
 - © where

GO ON

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Grade 4 Assessment

A7.20

Writing, Revising, and Editing Test

Unit 7, Week 3

5 The following story is missing its concluding sentence. Read the story. Then write a concluding sentence that ties up all the "loose ends" and tells the reader how the problem was solved.

Brianna felt ready. She had done her stretches. She had done her warm-up runs in her "practice" shoes. Now the start of the race was only a few minutes away, and it was time to put on her race shoes, the running shoes she wore only for actual races.

Brianna opened her track bag and couldn't believe what she saw. In her hurry to get out of the house, she had grabbed her sister's running shoes instead! She started to panic, when she looked up and saw her mother getting out of the car in the parking lot.

Score			
/ 4 multiple-choice			
/4 writing			

DONE!

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Grade 4 Assessment

A7.21

Reading Comprehension Test

Directions: Read the letter and the handout. Then answer the questions about them.

Dear Uncle Bill.

The Space Museum was amazing! You would have loved it because there were some great rocket exhibits. At one point, we went into a giant room and watched a movie that showed Earth from orbit. It made me feel like I was in space. After that, an astronaut named Danny Olivas spoke to us. Here's a handout about him that I thought you might like to read. Your nephew,

Patrick

Danny Olivas: The Making of an Astronaut



The path to becoming an astronaut is different for everyone, but one

thing that all of the paths have in common is that they are not easy. For example, Danny Olivas applied to be an astronaut nine times before he was accepted.

Being turned down that many times was disappointing. However, that didn't stop Danny, who had wanted to be an astronaut for a long time.

When Danny was seven, his father took him to a space museum where he showed Danny how one of the rocket engines was made. Danny's dad knew about the engines because he helped make them!

The rocket was big and had many different parts. Danny could tell that a lot of people had worked on the rocket together. He was excited by the idea of being part of such a big team and wondered if he was smart enough to be an astronaut. He was good at fixing things, so maybe he could get a job fixing things for the astronauts.

Danny took classes and did experiments. He went to college and earned a special degree. Still, he was turned down again and again. Each time this happened, Danny kept his chin up and just kept working at it. He took it one step at a time. "You say, OK, what do I need to do next?" explains Danny. "You eat an elephant one bite at a time."

Today, Danny has been aboard a rocket-launched shuttle and walked in space. He does fix things for astronauts—and he does so in space! He's an astronaut himself. Clearly, for Danny, the reward was worth the effort.

Reading Comprehension Test

Unit Test

- 1 Along with his letter, Patrick sent his uncle a handout about the space museum. Which of these is a secondhand account?
 - (A) the handout
 - ^(B) the letter
- Which sentence is a firsthand account?
 - (A) Still, he was turned down again and again.
 - (B) Clearly, for Danny, the reward was worth the effort.
 - © "You say, OK, what do I need to do next?" explains Danny.
 - Danny could tell that a lot of people had worked on the rocket together.
- 3 Which of these expresses a fact?
 - A You should have been there.
 - **®** The Space Museum was amazing!
 - © There were some great rocket exhibits.
 - An astronaut named Danny Olivas spoke to us.
- 4 Which of these is an opinion?
 - The people who fix things in space are astronauts.
 - B Danny went to college and earned a special degree.
 - © Being turned down that many times was disappointing.
 - When Danny was seven, his father took him to a space museum.

- 5 Which fact best supports the opinion that the path to becoming an astronaut is not easy?
 - Danny had wanted to be an astronaut for a long time.
 - B Danny was excited by the idea of being part of such a big team.
 - © Danny applied to be an astronaut nine times before he was accepted.
 - Danny knew that many people had worked on the rocket together.
- **6** Which of these supports the opinion that for Danny "the reward was worth the effort"?
 - Danny took classes and did experiments.
 - B Danny knew that he was good at fixing things.
 - © Danny kept his chin up each time he was turned down.
 - Danny went on a space walk and rode a shuttle into space.

Name	Date

Reading Comprehension Test

Directions: Read the passage. Then answer the questions about the passage.

Becoming an Astronaut

Many people want to become astronauts, but few actually make it into space. The way that astronauts are chosen and trained has changed over the years. Still, it is one of the most difficult jobs in the world to get.

Measuring Up

The first astronauts from the United States were male test pilots who flew for the military. They had to be between the ages of 25 and 40 and shorter than 5 feet 11 inches tall. Height was important because they had to fit inside the spacecraft.

Taking Tests

Early astronauts had to complete many difficult physical tests. These tests were done because no one knew how leaving Earth would affect the human body. Astronauts had to be very healthy and strong to pass the tests. In one test, the men flew in an airplane that went up and down like a roller coaster. The men inside experienced weightlessness, and some of them felt very sick.



Astronauts training for space

Breaking with the Past

Today, the rules for choosing astronauts have changed. Astronauts no longer have to be in the military. They do not have to be young either. In fact, the oldest astronaut to date was 77 years old! Astronauts also no longer have to be men. Women are now able to go into space. Astronauts can be taller, too, up to 6 feet 3 inches.

Space suits now help keep astronauts from feeling sick during takeoffs and landings. However, astronauts still have to be healthy and strong. Today, more people have the chance to become astronauts, but the training is still difficult.

Reading Comprehension Test

Unit Test

- 7 How are today's astronauts like the first astronauts? They have to be
 - (A) in the military.
 - ® male test pilots.
 - © healthy and strong.
 - D younger than 40 years old.
- 8 Today's astronauts are different from the first astronauts because they
 - A have very difficult jobs.
 - ® can be men or women.
 - © are trained and tested.
 - D fly smaller spacecraft.
- To be an astronaut is one of the most difficult jobs in the world. You can conclude that most astronauts —
 - A think the tests are fun.
 - [®] want to get a new job.
 - © do not enjoy space travel.
 - (D) are not afraid of hard work.

- 10 The first astronauts had to be shorter than 5 feet 11 inches to fit in the spacecraft. Now, astronauts can be much taller. What conclusion can you make from this change?
 - Spacecraft are bigger now.
 - ® Space suits work better now.
 - © Tall people want to be astronauts.
 - D Spacecraft can be flown by women.
- 11 In the part of the passage under "Taking Tests," what is the most important idea?
 - Early astronauts had to complete many difficult physical tests.
 - B Some of the astronauts got sick when weightless.
 - © In one test, the men flew in an airplane that went up and down.
 - When the airplane went up and down, it was like a roller coaster.
- 12 The heading "Breaking with the Past" helps the reader understand that this part is about
 - A new equipment.
 - [®] kinds of training.
 - © changes to rules.
 - (D) health and fitness.

Reading Comprehension Test

Directions: Read the passage. Then answer the questions about the passage.



Ten-year-old Tina had never been in an airplane. Still, she wanted to be an astronaut and explore outer space. She had just finished reading a book about the first astronauts to land on the moon. Now if she could only figure out how to get into outer space!

The next day when Tina visited Grandpa, she told him that she was going to be an astronaut.

"That's great news!" said Grandpa with a wink. "When is your first trip into space?"

"I'm serious," said Tina. "How old do you have to be to be an astronaut?"

Grandpa was pretty sure that astronauts had to be older than 10. The two of them looked on the computer. They learned that the youngest astronaut was a woman named Sally Ride. She was 32 years old when she became the first American woman in space.

"I have to wait until I'm 32?" cried Tina. "I want to explore space now!"

"Well, you'll just have to be patient," said Grandpa. "Until then, I know a way that you can at least see outer space."

GO ON

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Grade 4 Assessment

A7.26

Reading Comprehension Test

Unit Test

Grandpa looked into his closet and carefully pulled out a long, heavy box. Inside was a shiny black telescope!

"I got this when I was your age," said Grandpa chuckling. "Now I think you should have it."

That night, Tina and Grandpa explored space together without ever leaving Earth. To see all those stars through the telescope made Tina certain. She was definitely going to become an astronaut when she grew up.

- 13 What problem does Tina have?
 - She wants to visit her grandpa.
 - [®] She is too young to fly into space.
 - © She has never been in an airplane.
 - D She finishes a book about astronauts.
- 14 The turning point in the passage is when
 - A Tina wants to explore space now.
 - ® Grandpa gives Tina his telescope.
 - © Tina and Grandpa read about Sally Ride.
 - ① Tina tells Grandpa her plan to be an astronaut.

- 15 Both "Seeing Stars" and the handout about Danny Olivas are about people who
 - (A) are interested in rocket engines.
 - [®] read books about exploring space.
 - © learn about space from their grandfather.
 - want to become astronauts when they grow up.
- 16 Both Tina and Danny Olivas
 - (A) thought about space as children.
 - B have gone on a space walk.
 - © were good at fixing things.
 - (D) took lots of tests.

Name Date	

Reading Comprehension Test

Unit Test

Directions: Read the passage. Then answer the questions about the passage.

Camping with Aunt Sheila

Aunt Sheila loves to have fun, so I was happy when she invited me to go camping. After she picked me up in her car, we waved goodbye to my parents and drove to the hiking trail.

Putting on my backpack, I noticed that my aunt's pack looked lighter than mine. It wasn't until we set up camp that I learned why. She had left the tent at home! "Oh, well," Aunt Sheila said. "This way we can look at the stars."

We built a campfire and cooked our dinner. Then we snuggled into our sleeping bags and stared up at the sky. "There must be a million stars up there," Aunt Sheila sighed.

"My science teacher says we can see about 2,000 stars on a clear night," I said. Just then, a light streaked across the darkness.

Aunt Sheila wondered about how far away the shooting star was. I told her that shooting stars are closer to us than the moon. I explained that they are usually dust particles falling into Earth's sky. We talked some more and then fell asleep.

When my alarm went off, it was still dark. "Aunt Sheila," I said. "We'd better get moving or we'll miss sunrise." She just groaned, rolled over, and started to snore. I tried all kinds of tricks, but nothing worked. Finally I shouted, "Hey, go away, Mr. Bear!" and Aunt Sheila's head popped out of her sleeping bag.

We made it to the lookout just as the sun's rosy face peeked over a hill. Aunt Sheila pointed to a bright light on the horizon and said, "Look at that huge star!"

Reading Comprehension Test

"It's called the Morning Star," I said, "but it's really the planet Venus."

Aunt Sheila gave me a hug. "We'll have to go camping again soon," she said. "I learn so much!"

- Based on her actions, Aunt Sheila can be described as
 - A grumpy.
 - B selfish.
 - © serious.
 - (D) forgetful.
- 18 Based on the passage, you can tell that the narrator
 - (A) is afraid of wildlife.
 - [®] brings too much stuff.
 - © knows a lot about the stars.
 - D plans to be a science teacher.

- 19 "Camping with Aunt Sheila" is told from
 - (A) the narrator's point of view.
 - **B** Aunt Sheila's point of view.
- 20 Which passage is made up by the author?
 - "Camping with Aunt Sheila"
 - ® "Danny Olivas: The Making of an Astronaut"
- Which of these passages is told in third-person?
 - "Seeing Stars"
 - ® "Camping with Aunt Sheila"

22

Imagine you are an astronaut traveling through space. Write a short firsthand account of two or three sentences telling what you see or feel.

Now write a short secondhand account of traveling through space.

Score _____/24

DONE!

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Grade 4 Assessment

A7.29

Vocabulary Test

Unit Test

Directions: Read the question. Use the chart to choose the best answer.

Root	Origin	Meaning	Example
ped	Greek	foot	pedal
dict	Latin	speak	dictionary
bio	Greek	life	biography
dec	Latin	ten	decimal

1 What does diction most likely mean?

She was only five years old but had good diction.

- (A) height
- (B) speech
- © hearing
- (D) manners

2 What does pedestrians most likely mean?

The driver had to watch for pedestrians on the road.

- (A) pet owners
- (B) bad weather
- © slippery roads
- D people walking

3 What does biology most likely mean?

Most doctors learn a lot about biology.

- (A) research
- (B) their patients
- © the study of life
- (D) medical instruments

4 What does decade most likely mean?

It took a <u>decade</u> for the tree to grow as tall as the house.

- (A) ten years
- (B) medicine
- © long time
- D great care

GO ON

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Grade 4 Assessment

A7.30

Vocabulary Test

Unit Test

Directions: Read the questions. Use the dictionary entries to choose the best answer.

hand (hand) noun 1 a part of the body 2 a pointer that moves to different numbers on a clock or watch 3 a player's cards verb4 to give something to someone

grade (grād) noun 1 year in school 2 a letter or number that shows how well you have done some work 3 the slope of the ground verb 4 to give a letter or number to show how well someone worked

5 Which meaning of <u>hand</u> is used in this sentence?

Joe will <u>hand</u> you the ball once he has finished playing with it.

- (A) meaning 1
- ® meaning 2
- © meaning 3
- D meaning 4

6 Which meaning of grade is used in this sentence?

I earned a good <u>grade</u> on my math test.

- (A) meaning 1
- ® meaning 2
- © meaning 3
- D meaning 4

Vocabulary Test

Unit Test

Directions: Choose the word that completes the sentence correctly.

- 7 The airplane will ______ as it takes off.
 - (A) orbit
 - (B) limit
 - © interpret
 - D accelerate
- 8 Let's _____ the couch to see if it will fit.
 - (A) launch
 - (B) balance
 - © measure
 - D preserve
- 9 Earth takes 365 days to _____ the sun.
 - (A) orbit
 - (B) solve
 - © launch
 - (D) examine

- 1 watch the night sky an _____ of three times a week.
 - (A) artifact
 - (B) average
 - © experiment
 - exploration
- 11 Please _____ the amount of time you watch television.
 - (A) limit
 - (B) solve
 - © invade
 - (D) introduce
- 12 It is a very long _____ from the moon to Earth.
 - (A) speed
 - **B** capacity
 - © distance
 - (D) compass

Score _____/12

DONE!

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Grade 4 Assessment

A7.32

Writing, Revising, and Editing Test

Directions: Read the paragraph. Then answer the questions.

I just finished reading a book about a circus chimp named Bob who usually acts silly. Then he ___1 __ got serious when he went on a dangerous adventure. The chimp had to fly a rocket ship ___2 __ space. He brought two other chimps ___3 __ him. They traveled to a faraway planet ___4 __ they ended up saving the inhabitants. Then they returned to Earth. It was an entertaining book!

- 1 Choose the answer that goes in Blank 1.
 - (A) loud
 - ® except
 - © becomes
 - D suddenly
- 2 Choose the answer that goes in Blank 2.
 - \bigcirc on
 - [®] with
 - © into
 - after

- 3 Choose the answer that goes in Blank 3.
 - \bigcirc of
 - ® with
 - © during
 - (D) through
- 4 Choose the answer that goes in Blank 4.
 - (A) why
 - [®] when
 - © where
 - (D) during

Writing, Revising, and Editing Test

Directions: Read the paragraph. Then answer the questions.

- (1) Many North Carolina license plates say "First in Flight." (2) That's because the brothers Orville and Wilbur Wright first flew an airplane successful there. (3) It took off during the town of Kitty Hawk, near the coast. (4) The wind frequent blows briskly near the coast. (5) The Wright brothers knew that a plane takes off easilier into a breeze. (6) The brothers had worked very hard to design and build their airplane. (7) On December 17, 1903, they were ready.
- (8) With a field, they started the engine that they had built themselves.
- **(9)** The plane rose briefly into the air. **(10)** It flew only about 40 yards that day, but it was the start of the airplane age!
- 5 What is the correct way to write sentence 2?
 - A That's because the Brothers Orville and Wilbur Wright first flew an airplane successful there.
 - B That's because the brothers Orville and Wilbur Wright first flied an airplane successful there.
 - © That's because the brothers Orville and Wilbur Wright first flew an airplane successfully there.
 - O Correct as is

- 6 What is the correct way to write sentence 3?
 - A It took off from the town of Kitty Hawk, near the coast.
 - ^(B) It took off during the town of Kitty Hawk, with the coast.
 - © It took off during the town of kitty hawk, near the coast.
 - O Correct as is

Writing, Revising, and Editing Test

Unit Test

- 7 What is the correct way to write sentence 4?
 - The wind frequent blow briskly near the coast.
 - B The wind frequent blows brisk near the coast.
 - © The wind frequently blows briskly near the coast.
 - O Correct as is
- 8 What is the correct way to write sentence 5?
 - The Wright brothers knew that a plane takes off easilier at a breeze.
 - B The Wright brothers knew that a plane takes off more easily into a breeze.
 - © The Wright brothers who knew that a plane takes off easilier into a breeze.
 - © Correct as is

- What is the correct way to write sentence 8?
 - (A) In a field, they started the engine that they had built themselves.
 - ® With a field, they started the engine that they had built himself.
 - With a field, they started the engine when they had built themselves.
 - O Correct as is
- 10 What is the correct way to write sentence 9?
 - A The plane rose briefly to the air.
 - [®] The plane rised briefly into the air.
 - © The plane rose brief into the air.
 - O Correct as is

Writing, Revising, and Editing Test

 Read the paragraph. There are six mistakes in grammar and usage, punctuation, or capitalization. Use the Editing and Proofreading Marks to correct each mistake.

(1) The whole world celebrated the day where Apollo 11 landed on the moon. (2) NASA sent several other missions at the moon after Apollo 11. (3) Most of them worked out good. (4) In 1970, one mission, Apollo 13, was almost a disaster. (5) It's funny, because the mission started out smoothlier than usual. (6) Then there was an explosion.

(7) At the time, the astronauts didn't know the reason where it had happened. (8) They lost almost all their power. (9) They were 200,000 miles away and weren't sure if they could get back to Earth. (10) Fortunately, the astronauts were able to return safely. (11) In 1995, a movie was made around the troubles of that mission and its brave astronauts. (12) It's called *Apollo 13*.

Editing and Proofreading Marks

^	Add.
ه	Take out.
<u></u>	Move to here.
$\vec{\lambda}$	Add comma.
© ^	Add period.



Write a personal narrative about an experience or something you read that changed the way you think about outer space. Give details to help readers understand your experience and why it was important to you. Your narrative should have at least three paragraphs.

Score
/10 multiple-choice
/ 6 editing task
/4 weekly writing skill
/24 writing traits



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Grade 4 Assessment

A7.36

Weekly and Unit Assessments

Unit 7

Enter the scores for the Oral Reading Assessment administered in this unit.

Oral Reading		Oral Reading Fluency Rubrics				Datallina
Assessment	wcpm	Automaticity	Phrasing	Intonation	Expression	Retelling
		/4	/4	/4	/4	/4

Enter the scores from the Spelling Pre-Test and the End-of-Week Test in the table. Calculate the percent for each End-of-Week Test or use the conversion charts on page A7.46.

Spelling Tests	Week 1	Week 2	Week 3	Week 4	
Pre-Test CC.4.L.1.g, L.2, L.2.d	/19	/19	/19	/17	
End-of-Week Test cc.4.L.1.g, L.2, L.2.d	/19%	/19%	/19%	/17%	

Circle the item number for each item answered correctly. Assign 1 point for each correct answer. For tests scored with rubrics, enter the student's rubric scores. Calculate the percent of the overall score or use the conversion charts on page A7.46.

Reading Comprehension	,	Weekly Test Ite	Unit Test Items	Totals	
Tests	Week 1	Week 2	Week 3	Including Week 4	Across Tests
Analyze Informational Texts cc.4.Rinf.5, Rinf.10	1 2			7 8	/4
Conclusions cc.4.Rinf.10	3 4			9 10	/4
Events, Procedures, Concepts in Informational Text cc.4.Rinf.3, Rinf.1		1 2		11 12	/4
Identify Fact and Opinion cc.4.Rinf.1		3 4		3 4	/4
Author's Use Reasons and Evidence cc.4.Rinf.8		5 6		5 6	/4
Literature Text Structures CC.4.Rlit.10, Rlit.2			1 2	13 14	/4
Generalizations CC.4.Rlit.10			3 4	17 18	/4
Point of View in Informational Text CC.4.Rinf.6, W.9.b				1 2 22 (/3)	/5
Compare Across Genres cc.4.Rlit.9, Rinf.9				15 16 20	/3
Point of View in Literature CC.4.Rlit.6				19 21	/2
Total	/4%	o/6%	/4%	/24%	

Vocabulary Tests	w	Weekly Test Items Unit Test Items			Totals
	Week 1	Week 2	Week 3	Including Week 4	Across Tests
Math Vocabulary and Science Vocabulary CC.4.L.6, Rinf.4, Rlit.4	1 2 3 4 5		1 2 3 4 5	7 8 9	/13
Academic Vocabulary CC.4.L.6, Rinf.4, Rlit.4	6 7 8 9 10		6 7 8 9 10	10 11 12	/13
Multiple-Meaning Words cc.4.L.4, Rinf.4		1 2 3 4		5 6	/6
Word Parts CC.4.L.4, Rfou.3				1 2 3 4	/4
Total	/10%	/4%	/10%	/12%	

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Grade 4 Assessment

A7.37

Name	D-+-
Name	Date
Name	Date

Weekly and Unit Assessments

Unit 7

Writing, Revising, and			Weekly Test Ite	Unit Test Items	Totals	
Editing 7	lests	Week 1	Week 2	Week 3	Including Week 4	Across Tests
Revising and	Adverbs CC.4.L.1, L.3, L.1.a	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4	1 4 5 7 8 10 11a 11c 11d 11e	/26
Editing	Prepositions CC.4.L.1, L.3				2 3 6 9 11b 11f	/6
	Subtotal	/	6/6	/4	/16	
Weekly	Identifying Big Concepts, Integrate Information from Multiple Sources CC.4.W.8, Rinf.9, W.2		4			/4
Writing Skills	Break Up Long Sentences cc.4.w.1.f		/4			/4
(Writing Prompts)	Use Concluding Sentences cc.4.W.3.e			/4		/4
, , , , , , , , , , , , , , , , , , , ,	Maintain Point of View CC.4.W.3				/4	/4
	Subtotal	/	/4	/4	/4	
	Total	/109	6 /10%	/8%	/20%	

	Unit Test Writing	Ideas	Organization	Voice	Word Choice	Fluency	Conventions	Total
Pro	ompt—Traits							
	4.W.3, W.5, W.10, L.3, W.8, Rinf.9,							
	2, W.1.f, W.3.e	/4	/4	/4	/4	/4	/4	/24

Fill in the strategy or the strategies used each week and enter the score.

Reading Strategy Assessments	Week 1	Week 2	Week 3	Week 4
	/4	/4	/4	/4
	/4	/4	/4	/4
	/4	/4	/4	/4
	/4	/4	/4	/4

Enter the score for each Weekly Project.

Weekly Projects	Week 1	Week 2	Week 3	Week 4
Writing or Research Project	/24	/24	/24	/24

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Grade 4 Assessment

A7.38

Weekly and Unit Assessments

Unit 7

gro rete Pro sun clas if th	e Class Profile will help you up students for review and eaching. Use the Student files to complete this nmary information for your ss. Write a minus sign (–) ne student would benefit m review and reteaching.							
	Analyze Informational Texts CC.4.Rinf.5, Rinf.10							
	Conclusions CC.4.Rinf.10							
ion	Events, Procedures, Concepts in Informational Text CC.4.Rinf.3 Rinf.1							
ens	Identify Fact and Opinion CC.4.Rinf.1							
Reading Comprehension	Author's Use of Reasons and Evidence cc.4.Rinf.8							
g Con	Literature Text Structures CC.4.Rlit.10, Rlit.2							
din	Generalizations CC.4.Rlit.10							
Rea	Point of View in Informational Text cc.4.Rinf.6, W.9.b							
	Compare Across Genres CC.4.Rlit.9, Rinf.9							
	Point of View in Literature CC.4.Rlit.6							
ing, and Editing	Adverbs CC.4.L.1, L.3, L.1.a							
Revising, and	Prepositions CC.4.L.1, L.3							
Writing, Revis	Writing in Response to Prompt CC.4.W.3, W.5, W.10, L.1, L.3, W.8, Rinf.9, W.2, W.1, W.3.e							
_	Math Vocabulary and Science Vocabulary CC.4.L.6, Rinf.4, Rlit.4							
Vocabulary	Academic Vocabulary CC.4.L.6, Rlit.4, Rinf.4							
Voca	Multiple-Meaning Words CC.4.L.4, Rinf.4							
	Word Parts CC.4.L.4, Rfou.3							

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Grade 4 Assessment

A7.39

I	D-+-
lame	Date
varie	Dutc

Strengths and Needs Summary

Use this chart to summarize the strengths and needs of individual students. This information will be helpful during student conferences and for instructional planning.

	Consistent Strengths	Some Successes	Greatest Needs
Reading Comprehension			
Oral Reading			
Vocabulary			
Spelling			
Grammar			
Written Composition			

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Grade 4 Assessment

A7.40

Writing Rubric

Score Point	Ideas	Organization	Voice	Word Choice	Fluency	Conventions	Presentation
4	• The writing has a clear, focused message that keeps readers interested. • Details are accurate and relevant, showing in-depth knowledge of the topic.	• The writing has a clear structure throughout that suits the writer's audience and purpose. • All content flows smoothly and logically.	• The writing sounds genuine and unique. • The writer's tone is appropriate to the purpose and audience.	Appropriate words were chosen to clearly convey the writer's message. Language used throughout is appropriate for the audience and grabs readers' attention.	• All sentences are varied and effective and have appropriate transitions. • When read aloud, the writing sounds natural and rhythmic.	• The writing has only a few minor errors in spelling, punctuation, capitalization, grammar, usage, and paragraphing.	• The text is presented in an orderly way, significantly helping to convey the message. • Visuals are appropriate for the purpose and audience, and effectively support meaning.
м	• Most of the writing has a clear, focused message that keeps readers interested. • Most details are accurate and relevant, showing reasonable knowledge of the topic.	• Most of the writing has a clear structure that suits the writer's audience and purpose. • Most of the content flows smoothly and logically.	• Most of the writing sounds genuine and unique. • The writer's tone is mostly appropriate for the purpose and audience.	• Many appropriate words were chosen to clearly convey the writer's message. • Most language is appropriate for the audience and grabs readers' attention.	• Most sentences are varied and effective and have appropriate transitions. • When read aloud, most of the writing sounds natural and rhythmic.	• The writing has some errors in spelling, punctuation, capitalization, grammar, usage, and paragraphing. • Most of the sentences are complete.	• Most of the text is presented in an orderly way, generally helping to convey the message. • Most visuals are appropriate for the purpose and audience, and effectively support meaning.
2	a fairly unclear and unfocused message, causing readers some confusion. Some details are relevant and accurate, showing minimum knowledge of the topic.	• The writing does not have a structure that suits the writer's audience and purpose. • Some content flows smoothly and logically.	Some of the writing sounds genuine and unique. The writer's tone is somewhat inappropriate for the purpose and audience.	Some appropriate words were chosen to clearly convey the writer's message. Some language is appropriate for the audience and grabs readers' attention.	Some sentences are varied and effective and have appropriate transitions. When read aloud, some of the writing sounds natural and rhythmic.	• The writing has several errors in spelling, punctuation, capitalization, grammar, usage, and paragraphing. • Some of the sentences are complete.	• Some of the text is presented in an orderly way, but it is a little difficult to track and comprehend the message. • Some visuals are appropriate for the purpose and audience and support meaning.
-	• The writing does not have a clear, focused message, causing readers confusion. • Many details are irrelevant and inaccurate, indicating a lack of knowledge of the topic.	•The writing does not have a structure. •The content does not flow smoothly or logically.	The writing does not sound genuine or unique. The writer's tone is not appropriate for the purpose or audience.	• Few appropriate words were chosen to clearly convey the writer's message. • Language is dull, vague, and inappropriate for the audience, losing the readers' attention.	• Few or none of the sentences are varied or effective or have appropriate transitions. • When read aloud, the writing sounds unnatural.	• The writing has many errors in spelling, punctuation, capitalization, grammar, usage, and paragraphing. • Few sentences are complete.	• The text is not presented in an orderly way, making it very difficult to track and comprehend the message. • None of the visuals are appropriate for the purpose or audience, and do not support meaning.

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Grade 4 Assessment

A7.41

Research Rubric

Unit 7, Week 1

Scale	Content	Presentation
4	Three or more references sources were used, and main ideas and details are organized well to fully develop the topic.	 Speaker speaks clearly and at an appropriate rate and volume. Digital images and audiovisuals are used at the appropriate times and places.
3	 Two reference sources were used. Some assistance was required for student to articulate and organize main ideas and details in order to develop the topic in a satisfactory way. 	 Speaker speaks clearly and at an appropriate rate and volume most of the time. Digital images and audiovisuals are used, but not always at the best time or place.
2	 Only one reference source was used, and student required assistance to articulate and organize main ideas and details. Topic was not developed fully. 	 Speaker did not always speak clearly and used an appropriate volume and rate only some of the time. Only one digital image or audiovisual was used.
1	 No reference sources were used, and main ideas and details were missing or hard to follow. Topic was not clear. 	 Speaker was difficult to understand and hear. No digital images or audiovisuals were included in the presentation.

Unit Self-Assessment

Unit 7

Directions: Mark a ✓ in one box for each skill.







l can	I can do this and can tell others how to do it.	I can do this by myself.	I can do this if I have help or look at an example.
use context clues to figure out the meaning of a word.			
use roots to understand new words.			
make generalizations and draw conclusions when I read.			
compare and contrast information.			
tell the difference between facts and opinions.			
understand scientific texts.			
identify reasons and evidence.			
identify the different parts of plot.			
recognize the point of view when I read and whether it's a firsthand or secondhand account.			
tell the difference between a made-up story and a biography.			
use adverbs correctly.			
use prepositions correctly.			

·	_		
What did you like about it?			

Of all the texts you read for Moving Through Space, which one was your favorite?

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Grade 4 Assessment

A7.43

Answer Keys and Rubrics



Reading Comprehension										
Week 1										
Item	Key	Item Descriptor	CCSS Code							
1	Α	Comparison	CC.4.Rinf.5, Rinf.10							
2	С	Comparison	CC.4.Rinf.5, Rinf.10							
3	В	Conclusion	CC.4.Rinf.10							
4	D	Conclusion	CC.4.Rinf.10							
Item	Key	Item Descriptor	CCSS Code							
1	D	Concepts	CC.4.Rinf.3, Rinf.1							
2	С	Concepts	CC.4.Rinf.3, Rinf.1							
3	С	Identify Fact and Opinion	CC.4.Rinf.1							
4	Α	Identify Fact and Opinion	CC.4.Rinf.1							
5	С	Reasons and Evidence	CC.4.Rinf.8							
6	D	Reasons and Evidence	CC.4.Rinf.8							
		Week 3								
Item	Key	Item Descriptor	CCSS Code							
1	В	Plot Structure	CC.4.Rlit.10, Rlit.2							
2	D	Plot Structure	CC.4.Rlit.10, Rlit.2							
3	В	Generalizations	CC.4.Rlit.10							
4	A	Generalizations	CC.4.Rlit.10							
-			CC.4.MIL.10							
Unit Test (including Week 4)										
Item	Key	Item Descriptor	CCSS Code							
1	Α	Compare and Contrast Accounts	CC.4.Rinf.6							
1 2	A C	Compare and Contrast Accounts Compare and Contrast Accounts	CC.4.Rinf.6 CC.4.Rinf.6							
1	Α	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion	CC.4.Rinf.6 CC.4.Rinf.6 CC.4.Rinf.1							
1 2	A C D	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion	CC.4.Rinf.6 CC.4.Rinf.6							
1 2 3	A C D	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion	CC.4.Rinf.6 CC.4.Rinf.6 CC.4.Rinf.1							
1 2 3 4	A C D	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion	CC.4.Rinf.6 CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1							
1 2 3 4 5	A C D C C	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence	CC.4.Rinf.6 CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8							
1 2 3 4 5 6	A C D C C D	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison	CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8							
1 2 3 4 5 6 7	A C D C C C C	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison	CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.8							
1 2 3 4 5 6 7 8	A C D C C D C B	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison	CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.5, Rinf.10							
1 2 3 4 5 6 7 8	A C D C C D C B D	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison Conclusions	CC.4.Rinf.6 CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.5, Rinf.10							
1 2 3 4 5 6 7 8 9	A C D C C D C B D A	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison Conclusions Conclusions	CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.10 CC.4.Rinf.10							
1 2 3 4 5 6 7 8 9 10	A C D C C D C A A A	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison Conclusions Conclusions Concepts	CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.10 CC.4.Rinf.10 CC.4.Rinf.10 CC.4.Rinf.3, Rinf.1							
1 2 3 4 5 6 7 8 9 10 11	A C D C C D C B D A A C C	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison Conclusions Conclusions Concepts Concepts	CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.10 CC.4.Rinf.3, Rinf.1							
1 2 3 4 5 6 7 8 9 10 11 12 13	A C D C C B D A A C C B	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison Conclusions Conclusions Concepts Plot Structure	CC.4.Rinf.6 CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.10 CC.4.Rinf.10 CC.4.Rinf.3, Rinf.11 CC.4.Rinf.3, Rinf.11 CC.4.Rinf.3, Rinf.1							
1 2 3 4 5 6 7 8 9 10 11 12 13 14	A C D C C B D A A C B B B	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison Conclusions Conclusions Concepts Plot Structure Plot Structure	CC.4.Rinf.6 CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.10 CC.4.Rinf.10 CC.4.Rinf.3, Rinf.1 CC.4.Rinf.3, Rinf.1 CC.4.Rinf.3, Rinf.1 CC.4.Rinf.10, Rlit.2 CC.4.Rlit.10, Rlit.2							
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A	Compare and Contrast Accounts Compare and Contrast Accounts Identify Fact and Opinion Identify Fact and Opinion Author's Use Reasons and Evidence Author's Use Reasons and Evidence Comparison Comparison Conclusions Conclusions Concepts Plot Structure Plot Structure Compare Events Across Genres	CC.4.Rinf.6 CC.4.Rinf.6 CC.4.Rinf.1 CC.4.Rinf.1 CC.4.Rinf.8 CC.4.Rinf.8 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.5, Rinf.10 CC.4.Rinf.3, Rinf.1 CC.4.Rinf.3, Rinf.1 CC.4.Rinf.3, Rinf.1 CC.4.Rinf.10, Rlit.2 CC.4.Rlit.10, Rlit.2 CC.4.Rlit.9, Rinf.9							
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Vocabulary											
	_	Veek 1 5, Rlit.4, Rinf.4,	Week 3 CC. 4.L.6, Rlit.4, Rinf.4								
Item	Key	Word	Item	Word							
1	В	heights	1	В	astronaut						
2	С	accelerates	2	В	planet						
3	В	measure	3	С	rotation						
4	Α	motion	4	Α	orbits						
5	С	speed	5	Α	launches						
6	D	solve	6	D	limit						
7	С	scale	7	Α	constant						
8	Α	Distance	8	D	Technology						
9	D	rate	9	Α	capacity						
10	В	average	10	С	Resistance						

Week 2											
ltem	Key	Item Descriptor	CCSS Code								
1	D	Multiple-Meaning Words	CC.4.L.4, Rinf.4								
2	Α	Multiple-Meaning Words	CC.4.L.4, Rinf.4								
3	D	Multiple-Meaning Words	CC.4.L.4, Rinf.4								
4	С	Multiple-Meaning Words	CC.4.L.4, Rinf.4								
		Unit Test (including Week 4)									
ltem	Key	Item Descriptor	CCSS Code								
1	В	Word Parts	CC.4.L.4, Rfou.3								
2	D	Word Parts	CC.4.L.4, Rfou.3								
3	С	Word Parts	CC.4.L.4, Rfou.3								
4	Α	Word Parts	CC.4.L.4, Rfou.3								
5	D	Multiple-Meaning Words	CC.4.L.4, Rinf.4								
6	В	Multiple-Meaning Words	CC.4.L.4, Rinf.4								
7	D	Math Vocabulary	CC.4.L.6, Rlit.4, Rinf.4								
8	С	Math Vocabulary	CC.4.L.6, Rlit.4, Rinf.4								
9	Α	Science Vocabulary	CC.4.L.6, Rlit.4, Rinf.4								
10	В	Academic Vocabulary	CC.4.L.6, Rlit.4, Rinf.4								
11	Α	Academic Vocabulary	CC.4.L.6, Rlit.4, Rinf.4								
12	С	Academic Vocabulary	CC.4.L.6, Rlit.4, Rinf.4								

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Answer Keys and Rubrics



	Writing, Revising, and Editing												
		Week 1		Unit Test (including Week 4)									
Item	Key	Item Descriptor	CCSS Code	Item	Key	Item Descriptor	CCSS Code						
1	D	Descriptive Adverbs	CC.4.L.1, L.3	1	D	Descriptive Adverbs	CC.4.L.1, L.3						
2	С	Descriptive Adverbs	CC.4.L.1, L.3	2	С	Prepositions	CC.4.L.1, L.3						
3	С	Descriptive Adverbs	CC.4.L.1, L.3	3	В	Prepositions	CC.4.L.1, L.3						
4	Α	Descriptive Adverbs	CC.4.L.1, L.3	4	С	Relative Adverbs	CC.4.L.1.a, L.3						
5	В	Adverbs vs. Adjectives	CC.4.L.1, L.3	5	С	Editing: Descriptive Adverbs	CC.4.L.1, L.3						
6	D	Adverbs vs. Adjectives	CC.4.L.1, L.3	6	Α	Editing: Prepositions	CC.4.L.1, L.3						
Prompt (7)	Skill Rubric	Identify Big Concepts, Integrate Information from Multiple Sources	CC.4.W.8, Rinf.9, W.2	7	С	Editing: Adverbs vs. Adjectives	CC.4.L.1, L.3						
		Week 2		8	В	Editing: Comparison Adverbs	CC.4.L.1.b, L.3						
Item	Key	Item Descriptor	CCSS Code	9	Α	Editing: Prepositions	CC.4.L.1, L.3						
1	В	Comparison Adverbs	CC.4.L.1, L.3	10	D	Editing: Adverbs vs. Adjectives	CC.4.L.1, L.3						
2	С	Comparison Adverbs	CC.4.L.1, L.3	11a	Editing Rubric	Editing Task: Relative Adverbs	CC.4.L.1.a, L.3, W.5						
3	D	Comparison Adverbs	CC.4.L.1, L.3	11b	Editing Rubric	Editing Task: Prepositions	CC.4.L.1, L.3, W.5						
4	Α	Comparison Adverbs	CC.4.L.1, L.3	11c	Editing Rubric	Editing Task: Adverbs vs. Adjectives	CC.4.L.1, L.3, W.5						
5	Α	Comparison Adverbs	CC.4.L.1, L.3	11d	Editing Rubric	Editing Task: Comparison Adverbs	CC.4.L.1, L.3, W.5						
6	В	Comparison Adverbs	CC.4.L.1, L.3	11e	Editing Rubric	Editing Task Relative Adverbs	CC.4.L.1.a, L.3, W.5						
Prompt (7)	Skill Rubric	Break Up Long Sentences	CC.4.W.1.f	11f	Editing Rubric	Editing Task: Prepositions	CC.4.L.1, L.3, W.5						
		Week 3		Prompt (12)	Skill Rubric, Writing Rubric	Maintain Point of View	CC.4.W.3						
Item	Key	Item Descriptor	CCSS Code										
1	С	Relative Adverbs	CC.4.L.1.a, L.3]									
2	Α	Relative Adverbs	CC.4.L.1.a, L.3]									
3	С	Relative Adverbs	CC.4.L.1.a, L.3]									
4	В	Relative Adverbs	CC.4.L.1.a, L.3]									
Prompt (5)	Skill Rubric	Use Concluding Sentences	CC.4.W.3.e										

Unit 7

Answer Keys and Rubrics

Grade 4 Assessment

	Foints Earned to Percent Scored	4 points 6 points 'View Points 1 2 3 4 5 6	% 25 50 75 100 % 17 33 50 67 83 100		8 points 8 points 10 points 10 points 1 2 3 4 5 6 7 8 9	' -	12 points	Points 1 2 3 4 5 6 7 8 9 10 11 12		riting Prompt. Points 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 17	'			Points 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	well" % 5 11 16 21 26 32 37 42 47 53 58 63 68 74 79 84 89 95 100			_	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	24 points	Points 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 83 88 42 46 50 54 58 63 67 71 75 79 83	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Points	ling of the $\frac{38}{100} = \frac{38}{100} = \frac{39}{100} = 39$	secondhand	ıding of the secondhand	
Writing, Revising, and Editing	'n	Unit Test: Week 4 Skill Rubric Item 12 (Prompt) Maintain Point of View	Student writes a personal narrative with	consistent and accurate point of view		generally accurate point of view.	occasionally accurate point of view.	haphazard point of view.	Use the Writing Rubric on page A7.41 to assess the writing	traits of student responses for the Unit Test Writing Prompt.	Unit Test Editing Task Rubric	Item 11 1 point correct per response	In sentence 1, change "where" to "when"	In sentence 2, change "at" to "to"	In sentence 3, change "good" to "well"	In sentence 5, change "smoothlier" to "more	smoothly"	In sentence 7, change "where" to "why"	In sentence 11, change "around" to "about"		Reading Comprehension	Unit Test Rubric	Item 22 Compare and Contrast Accounts	Fully demonstrates an understanding of the	difference between firsthand and secondhand accounts.	Demonstrates a limited understanding of the difference between firsthand and secondhand accounts.	
N		lte	Student w	4 nointe		3 points	2 points	1 point	Use the W	traits of stu		_	11a	11b	11c	11d		11e	11f					3 points		2 points	
Writing, Revising, and Editing		Week 1 Skill Rubric Item 7 (Prompt) Identify Big Concepts;	Integrate Information	Student writes an informational paragraph with	consistent focus and seamless information	adequate focus and relevant information	from two sources.	some focus and limited information from two sources.	minimal focus and little or no information from second source.	Week 2 Skill Rubric	Item 7 (Prompt) Break Up Long Sentences	Student revises a paragraph using sentences that	flow smoothly and are effortless to	understand.	flow adequately and are easy to understand.		have stilted flow and require rereading to	יוויסקי זלמויסי.	are too long or too choppy or introduce serious syntactical errors.		Week 3 Skill Rubric Item 5 (Prompt) Use Concluding Sentences	Student writes a concluding sentence that	is satisfying.		resolves the problem.	relates to the problem.	
Writ		Iter		Student wri	4 points	3 points		2 points	1 point		Item	Student rev	4 points		3 points 1		2 points	+	T point		Item	Student wri	4 points i		3 points	2 points	1

Compare and Contrast

Review the Rules

You can compare and contrast things you read about in a text.

- To compare, tell how two or more things are alike.
- To contrast, tell how two ore more things are different.

Practice

Read "Vehicles" and underline the sentences that compare. Then, complete the chart to show the contrasts.

Vehicles

Many people in our city drive cars or ride bicycles. Both vehicles help people get from one place to another. But, they are very different. Cars have motors that help them move. Bicycles move when the rider pushes the pedals. Bicycles have two wheels, but cars have four. People use the handlebars to guide bicycles. They use steering wheels to guide cars. Both vehicles are a good way to get around.

How They Move	Number of Wheels	How People Guide Them
		Wheels

Apply

Tell a partner about a comparison or a contrast from one of your Small Group Reading books. List two ways they are alike or different.

Name	Date
------	------

Synthesize

Review the Rules

You can synthesize or draw conclusions when you read.

- Look for an important detail in the text.
- · Look for another important idea.
- Think about how the ideas work together.

Practice

Read "Fun in the Afternoon" and complete the sentences. Then answer the question.

Fun in the Afternoon

Anjali and Arjun are putting on their coats. They look out the window as they put on mittens and hats. "This is going to be a great day!" Anjali says. The weather is perfect for what they have planned. Arjun grabs the sled from the closet. "I get to go down the hill first!" Together, they run outside into the cold air.

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Apply

Tell a partner how you synthesize details from one of your Small Group Reading books. List details from the text that support your synthesis.

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RT7.2

Explain Scientific Text

Review the Rules

Scientific texts give information about science topics. To explain scientific texts, use the

- introduction
- headings
- · conclusion.

Practice

Read this passage and then answer the questions.

Prairie dogs are like small ground squirrels. They are native to the grasslands of North America. These animals live in villages under the ground.

Prairie Dog Communication

Prairie dogs have their own language. They bark and whine. They also click their teeth to "talk" to each other. Scientists have recorded many of these sounds. Prairie dogs are interesting animals. Scientists can learn a lot by studying them.

)	What does the introduction tell you about prairie dogs?
	Which part of the passage is the heading?
	What does the conclusion tell you about prairie dogs?

Apply

Explain a scientific text from one of your Small Group Reading books. Share the information you learned from the different text features with a partner.

Name	Date
------	------

Explain Reasons and Evidence

Review the Rules

Authors use reasons and evidence to support

- their main ideas
- their opinions.

Practice

Read "Life as a Farmer." Then, answer the questions.

Life as a Farmer

Being a farmer is very rewarding. I like to see beautiful sunrises early in the morning. I also enjoy working in and around nature. There is plenty of nature on the farm. There are birds, cows, and chickens. Farming is a great job.

1	What is the main idea of the passage?
2	What reasons does the author give for enjoying farming?
3	What evidence does the author give to support his or her opinion?

Apply

Tell a partner about the author's opinion from one of your Small Group Reading books. List how the author supports his or her opinions with reasons and evidence.

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RT7.4

Synthesize

Review the Rules

You can synthesize or draw conclusions when you read.

- · Look for an important detail in the text.
- Look for another important idea.
- Think about how the ideas work together.

Practice

Read "The Walk" and complete the sentences. Then answer the question.

The Walk

Darnell is walking down the street when he suddenly stops. He feels like he can't move. Walking toward him is a woman with a large, black dog. The dog is on a leash, but that doesn't make Darnell feel any better. He starts to sweat, and his chest feels tight. After running across the street, Darnell feels much better.

0	I read	
U		

2	I also read			
	. 4.50 . 544			

3	I connect the ideas and conclude
	Teorinect the ideas and conclude

Can the dog come across the street to be near Darnell? How do you know?

Apply

Synthesize for a partner the details from one of your Small Group Reading books to draw a conclusion. List details from the text that support your idea.

Name	Date

Writing Trait: Sentence Fluency

Review the Rules

You can write fluent sentences by

- choosing words that support your topic
- writing sentences that are not too long or too short
- making sure your writing sounds natural when you read it aloud.

Practice

Read each item. Check the box to show which item has the best sentence fluency.

	Best Sentence Fluency
Erik is tired. He feels sleepy. This is because Erik has too much homework. He decides to go to bed early because he is so sleepy.	
Erik feels very tired. He has a lot of homework, so he has been working hard. Going to bed early feels like right choice.	

Apply

Rewrite the item below to improve the sentence fluency.

Diamond wants to go to art school because she likes art and likes to show people her art. She's good. Diamond will try to see if she can go to art school when graduation from high school is over.	

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Plot

Review the Rules

A plot usually has a problem, an event in the story that causes a change, and a solution.

- Stories have a beginning, a middle, and an end.
- The event that causes a change in the story is called the turning point.

Practice

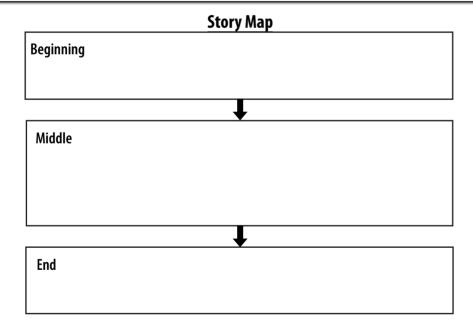
Read "Star Gazer" and complete the story map. Then, circle the turning point in the story.

Star Gazer

Misha loves space. He lies in bed at night and looks at the stars. He dreams of being an astronaut.

Misha reads books about space. But, it's not enough. Misha needs to be closer to the stars.

Misha's mother learns about a new, strong home telescope. The whole family saves until they can buy it for Misha's birthday. Misha is very happy!



Apply

Tell a partner about a problem in one of your Small Group Reading books. Tell where the important change occurs in the plot and changes the story.

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RT7.7

Synthesize

Review the Rules

When you synthesize, you combine what you know with what you read. Then, you make a generalization based on both.

- · Look for details in the text.
- Think about what you already know about the details.
- Make a general statement that can be true about many things.

Practice

Read "Exploring Space" and complete the chart.

Exploring Space

Since the 1960s, six U.S. spacecrafts have landed on the moon. The most famous was Apollo 11. That's when Neil Armstrong became the first person to walk on the moon.

Now, many spacecraft have been sent to Mars. They take photographs, measure temperatures, and survey the land. Scientists are learning what Mars is really like. So far, no people have landed on Mars. Russia plans to send the first astronaut to Mars one day. Will people walk on Mars, too?

Details	What I Know	Generalization
1. The U.S. landed six space- crafts on the moon.		
2. Spacecraft explore Mars.		
3. Russia plans to send an astronaut to Mars.		

Apply

Tell a partner about a generalization you made as you read one of your Small Group Reading books and how whatyou read led you to make that generalization.

Writing Trait: Organization

Review the Rules

Stories that are organized well usually

- · present ideas in a logical sequence
- present a clear problem with a character and a resolution.

Practice

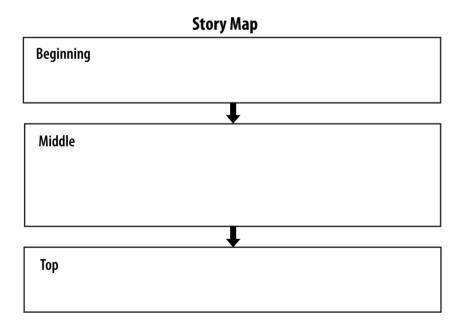
Read the story and complete the map. Write the sequence of events in the boxes. Then underline the problem in the story. Underline the resolution twice.

The Science Project

Lilah is excited about her science project. She builds a model of the solar system in her bedroom. She proudly shows it to her friends and family.

On the day of the science fair, Lilah starts to grab her model. It is gone! She is upset. Then, her mom walks in.

"Your project already is at the school," her mom says. "I took it early this morning so that you didn't worry." Lilah hugs her mom.



Apply

On a separate piece of paper write an original story with events that follow a logical order. Give a character a problem that requires a solution.

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RT7.9

Name Date

Point of View

Review the Rules

Fiction and nonfiction texts can have different points of view.

- First-person point of view uses words like *I*, *my*, *me*, *we*, and *our*. The narrator is part of the story.
- Third-person point of view describes what other people say and do. It uses words like he, she, his, they, and their. The narrator is not part of the action.

Practice

Read "One Small Word" and underline the pronouns that show point of view. Then write the point of view below the box.

One Small Word

When Neil Armstrong stepped on the moon, he said something that is now famous. He said, "One small step for man, one giant leap for mankind." He actually got it wrong.

The space program had asked Armstrong to say, "One small step for a man." By leaving out the a, the meaning became different. The moon landing was no small step for man or mankind, but a giant leap toward more space travel in the future. Later, Armstrong talked about the issue. He insisted that he did say the phrase correctly.

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Apply

Compare points of view with a partner from one of your Small Group Reading books. Discuss how each point of view differs from the other.

Compare and Contrast Accounts

Review the Rules

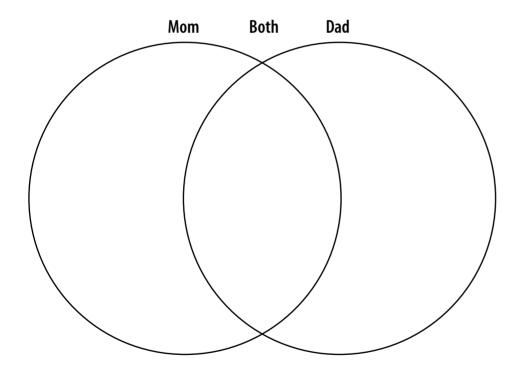
An account is a report of an event. Some accounts are similar. Some are different. It depends on who gives the account.

Practice

Read "The Rocket Disaster" and complete the Venn diagram.

The Rocket Disaster

Last week, my father and my brother Jack made a little rocket. They sent it into the sky. My family debates what happened next! My dad says that my brother tripped over the launching pad. That's why the rocket flew into a window of our house. My dad argues that he saw everything. My mom says my dad was too busy giving instructions to notice. In fact, she is sure that my brother was on the patio, not the yard. She thinks my dad put the rocket together wrong. They agree on one thing: Little rockets can be dangerous!



Apply

With a partner, compare accounts of the same event from one of your Small Group Reading books. Discuss how each account is the same and different.

Name Date

Synthesize

Review the Rules

When you synthesize, you combine what you know with what you read in the text. Then, you make a generalization based on what you read and what you know.

- Look for details in the text.
- Think about what you already know about the details.
- Make a general statement that can be true about many things.

Practice

Read "Halley's Comet" and complete the chart.

Halley's Comet

Halley's Comet is named for Edmond Halley. He was a scientist in the 1600s. Halley thought this comet would come back in 75 to 76 years. Other scientists thought Halley was wrong. They thought comets come once and then die. But, Halley was right. This comet comes back during our lifetime. You can see the next Halley's Comet in 2061. Mark it on your calendars!

Details	What I Know	Generalization
Halley's comet comes every 75-76 years.		

Apply

Tell a partner about a generalization you made as you read one of your Small Group Reading books. Tell what information led you to make that generalization.

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RT7.12

Writing Trait: Voice

Review the Rules

Writing with effective voice

- sounds natural when read aloud, the way a person would talk
- uses realistic dialogue, expressions, idioms, and details
- sticks with one point of view.

Practice

Read the paragraph. Underline sentences that show clear voice. Underline words that show point of view twice.

Moon Landing and More

We watched a documentary about the first moon landing. It was so cool! I learned that Neil Armstrong was the first person to walk on the moon. Although it was a long time ago, I'm still excited to think that someone walked around up there. I try to imagine what that must have been like for Armstrong. By the time I am older, people may be walking on Mars. That would be awesome. Maybe I will be the first person to go to Mars.

Apply

Write a paragraph about a news event you watched. Tell how it made you feel Give your writing a clear and effective voice.			ou feel.		
			_		

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RT7.13

Reteaching Masters Answer Key

RT7.1 Compare and Contrast

Vehicles

Many people in our city drive cars or ride bicycles. Both vehicles help people get from one place to another. But, they are very different. Cars have motors that help them move. Bicycle move when the rider pushes the pedals. Bicycles have two wheels, but cars have four. People use the handlebars to guide bicycles. They use steering wheels to guide cars. Both vehicles are a good way to get around.

Vehicle	How They Move	Number of Wheels	How People Guide Them
Bicycle	motor	two	handlebars
Car	ride pushes pedals	four	steering wheels

RT7.2 Synthesize

- 1. that Anjali and Arjun are putting on coats, mittens, and hats.
- 2. that the wether is good, and Arjun grabs a sled.
- 3. that Anjali and Arjun are going sledding.

It's winter. I know this because there is cold weather, and they are going sledding. People can get around the city in many different ways.

RT7.3 Explain Scientific Text

- 1. They are like small ground squirrels that live in North America in villages under the ground.
- 2. Prairie Dog Communication
- 3. Scientists can learn a lot from these interesting animals.

RT7.4 Explain Reasons and Evidence

- 1. Being a farmer is very rewarding.
- 2. likes seeing sunrises early in the morning; enjoys working around
- 3. says there i a lot of nature onthe farm; lists birds, cows, and chickens as evidence

RT7.5 Synthesize

- 1. that Darnell stops walking and feels like he can't move.
- 2. that there is a large, black dog walking toward Darnell.
- 3. that Darnellis afraid of dogs

No. The dog is on a leash. The leash will keep the dog with its owner. Also, Darnell feels much better, so he must be safe.

RT7.6 Writing Trait: Sentence Fluency

	Best Sentence Fluency
Erik is tired. He feels sleepy. This is because Erik has too much homework. He decides to go to bed early because he is too sleepy.	
Erik feels very tired. He has a lot of homework, so he has been working hard. Going to bed early feels like right choice.	V

Apply

Possible Response:

Diamond wants to go to art school. She enjoys making art and sharing it with others. Because she is very good, Diamond will try to go to art school when she graduates from high school.

RT7.7 Plot

Star Gazer

Misha loves space. He lies in bed at night and looks at the stars. He dreams of being an astronaut.

Misha reads books about space. But, it's not enough. Misha needs to be closer to the stars.

Misha's mother learns about a new, strong home telescope. The whole family saves until they can buy it for Misha's birthday. Misha is very happy!

Story Map

Beginning Misha wants to know more about space. Middle Misha's mother learns about a new telescope. Misha's family save their money to buy it.

End

Misha gets a telescope for his birthday.

Reteaching Masters Answer Key, continued

RT7.8 Synthesize

Details	What I Know	Generalization
 The U.S. landed six spacecrafts on the moon. Spacecraft explore Mars. Russia plans to send an astronaut to Mars. 	Mars is even farther away than the moon.	Modern people are very interested in exploring space.

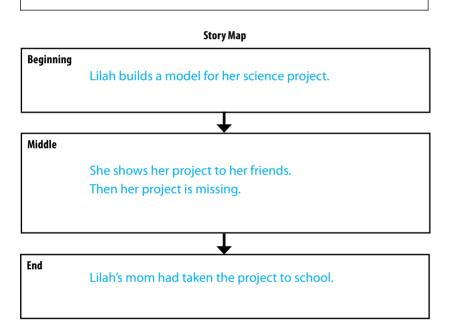
RT7.9 Writing Trait: Organization

The Science Project

Lilah is excited about her science project. She builds a model of the solar system in her bedroom. She proudly shows it to her friends and family.

On the day of the science fair, Lilah starts to grab her model. <u>It is</u> gone! She is upset. Then, her mom walks in.

<u>"Your project already is at the school,"</u> her mom says. "I took it early this morning so that you didn't worry." Lilah hugs her mom.



RT7.10 Point of View

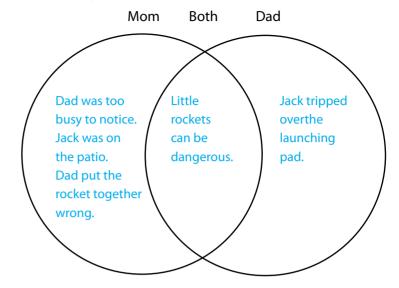
One Small Word

When Neil Armstrong stepped on the moon, <u>he</u> said something that is now famous. He said, "One small step for man, one giant leap for mankind." He actually got it wrong.

The space program had asked Armstrong to say, "One small step for a man." By leaving out the a, the meaning became different. The moon landing was no small step for man or mankind, but a giant leap toward more space travel in the future. Later, Armstrong talked about the issue. He insisted that he did say the phrase correctly.

the third person

RT7.11 Compare and Contrast Accounts



RT7.12 Synthesize

Details	What I Know	Generalization
Halley's comet comes every 75-76 years.	Sample response: My mom saw Halley's comet in 1986. She said it was exciting.	A comet that returns in our lifetime is exciting.

RT7.13 Writing Trait: Voice

Moon Landing and More

We watched a documentary about the first moon landing. It was so cool! I learned that Neil Armstrong was the first person to walk on the moon. Although it was a long time ago, I'm still excited to think that someone walked around up there. I try to imagine what that must have been like for Armstrong. By the time I am older, people may be walking on Mars. That would be awesome. Maybe I will be the first person to go to Mars.

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Reading Level Translation Key

	Guided Reading	DRA	Lexile [®]	Reading Recovery	
	A	A-2		A-2	
K	В	3		3	K
	С			4	
	D	4		5	
				6	
	E	6		7	
	F	8		8	
1			200L-400L	9	1
	G	10		10	
	Н			11	
	1	12		12	
	J	14		14	
				15	
2		16	200L-400L		2
	К				
	L-M	18-28	300L-500L	18-20	
3	N-P	30-38	500L-700L	22–24	3
4	Q-R	40	650L-850L	26	4
5	S-U	44	750L-950L	28	5
6	V-W	50	850L-1000L		6

Reading levels are provided for each title in the *National Geographic Reach for Reading* Grade 1–2 Leveled Reading and Grades 3–5 Small Group Reading lessons. Please note that each leveling system is based on a different set of criteria. This may result in discrepancies when translating reading levels.

Grade 4 Unit 7 Cumulative Key Word List

ability (n)
accelerate (v)
adaptation (n)
adventure (n)
analyze (v)
ancestor (n)
ancient (adj)
archaeologist (n)
artifact (n)
astronaut (n)
atmosphere (n)
author's purpose
available (adj)
average (n)
balance (n)
behavior (n)
belief (n)
benefit (n)
border (n)
canyon (n)
capacity (n)
cause (n)
ceremony (n)
characteristic (n)
chart (n)
civilization (n)
clarify (v)
coastal (adj)
colony (n)
command (n)
communication (n)
comparison (n)
compass (n)
competition (n)
conclusion (n)
conservation (n)
constant (n)
contain (v)
continent (n)
control (v)
convert (v)
country (n)
courage (n)
craft (n)
create (v)
culture (n)
currency (n)
current (adj)
custom (n)
decompose (v)

decompose (v)

```
defend (v)
detail (n)
determine (v)
discovery (n)
distance (n)
effect (n)
electricity (n)
element (n)
elevation (n)
empire (n)
environment (n)
equator (n)
examine (v)
experiment (n)
exploration (n)
express (v)
feature (n)
figurative language
flow (v)
force (n)
galleon (n)
generalization (n)
generate (v)
globe (n)
graph (n)
habitat (n)
height (n)
hemisphere (n)
heritage (n)
hero (n)
historical (adj)
humid (adj)
hyperbole (n)
imagine (v)
imitate (v)
inference (n)
influence (v)
inhabitant (n)
inherit (v)
interact (v)
interpret (v)
introduce (v)
invade (v)
investigate (v)
landform (n)
landscape (n)
language (n)
launch (v)
```

limit (v)
locate (v)
map (n)
marriage (n)
material (n)
measure (v)
medium (n)
memory (n)
merchant (n)
migration (n)
mission (n)
modify (v)
mold (n)
monitor (v)
motion (n)
motive (n)
musical (adj)
narrator (n)
native (adj)
natural (adj)
navigation (n)
object (n)
occasion (n)
ocean (n)
official (adj)
orbit (v)
outcome (n)
outline (n)
pattern (n)
perform (v)
physical (adj)
plain (n)
planet (n)
plateau (n)
population (n)
port (n)
pottery(n)
power (n)
predator (n)
preserve (v)
president (n)
preview (v)
prey (n)
principle (n)
procedure (n)
project (n)
protect (v)
range (n)
rate (n)

record (n)

```
region (n)
relate (v)
relationship (n)
renewable (adi)
resistance (n)
resource (n)
response (n)
responsible (adj)
risk (n)
ritual (n)
role (n)
rotation (n)
route (n)
scale (n)
scarce (adi)
sequence (n)
service (n)
site (n)
skill (n)
solution (n)
solve (v)
species (n)
speed (n)
spore (n)
spread (v)
stanza (n)
strategy (n)
style (n)
suggest (v)
surface (n)
survival (n)
synthesize (v)
technology (n)
theme (n)
threatened (adj)
tool (n)
trade (v)
tradition (n)
trait (n)
transport (v)
treasure (n)
trickster (n)
valley (n)
value (v)
visualize (v)
volunteer (n)
weave (v)
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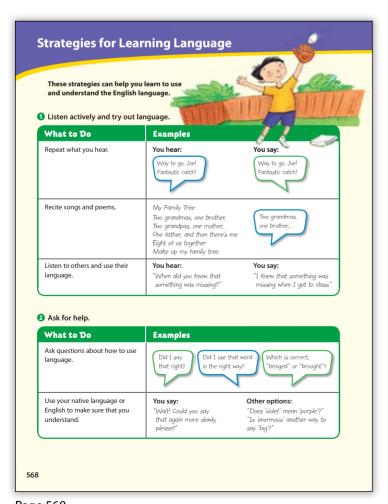
learn (v)

legend (n)

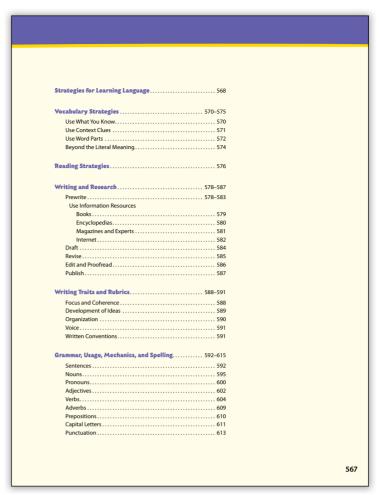
Anthology Handbook



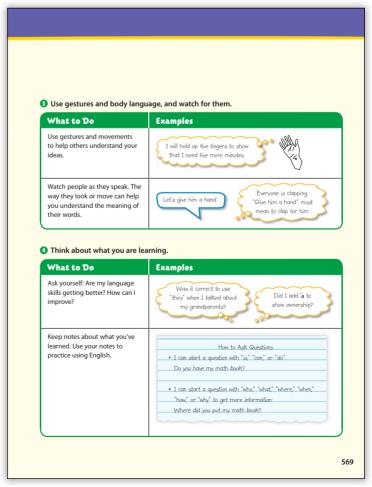
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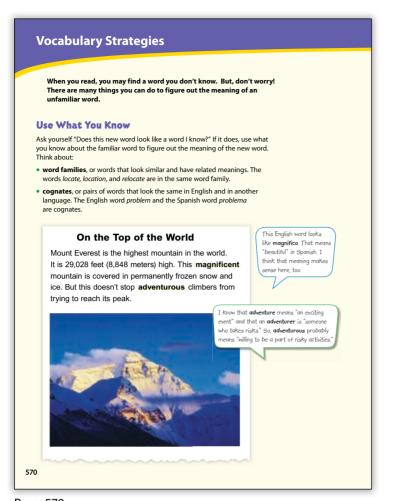
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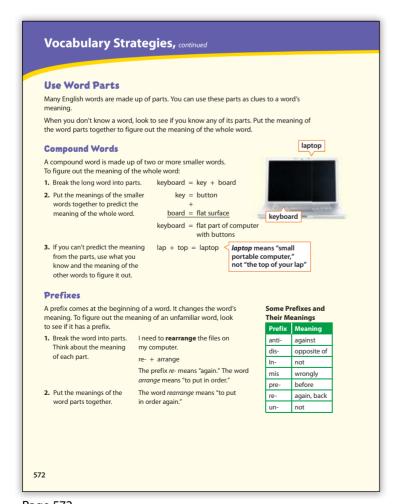
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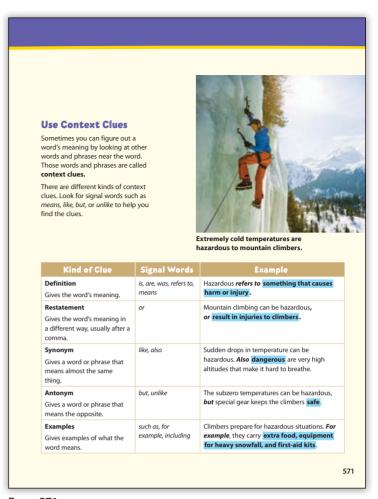
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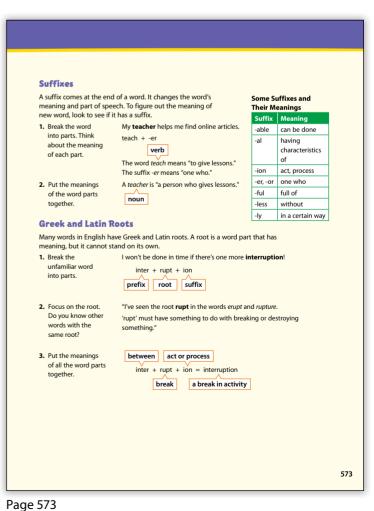
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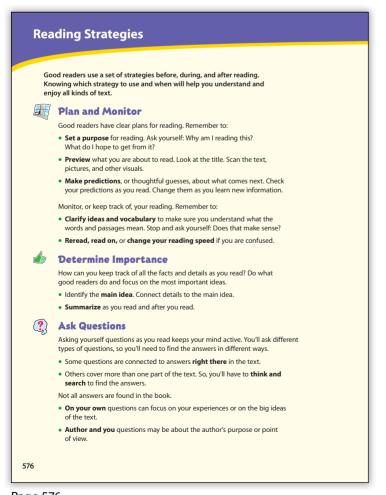


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Vocabulary Strategies, continued **Look Beyond the Literal Meaning** Writers use colorful language to keep their readers interested. They use words and phrases that mean something different from their usual definitions. Figurative language and idioms are kinds of colorful language. Figurative Language: Similes A simile compares two things that are alike in some way. It uses the words like or as to make the comparison. Cory hiked across the desert as Corv and a snail They both move very slowly His skin was like sheets of They are both rough and very dry. skin and sandpaper sandpaper. Figurative Language: Metaphors A metaphor compares two things without using the words like or as. The **sun's rays were a thousand** sun's rays and bee stings The sun's rays blistered his face. bee stings on his face. friend and thirst His only companion was thirst. His thirst was always there with Figurative Language: Personification When writers use personification they give human qualities to nonhuman things. The **angry sun** kept punishing A cactus reached out to him. is able to be friendly 574

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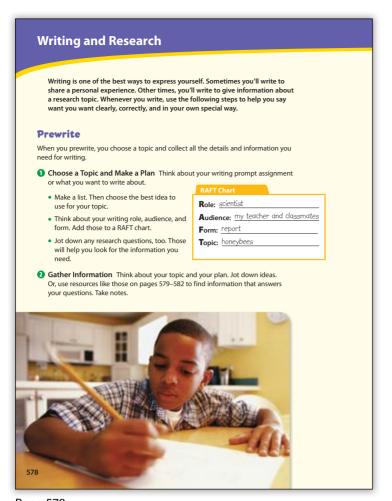
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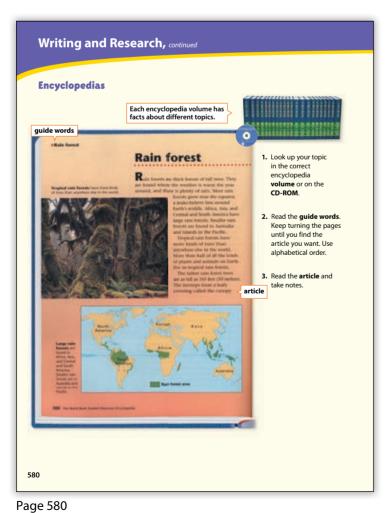
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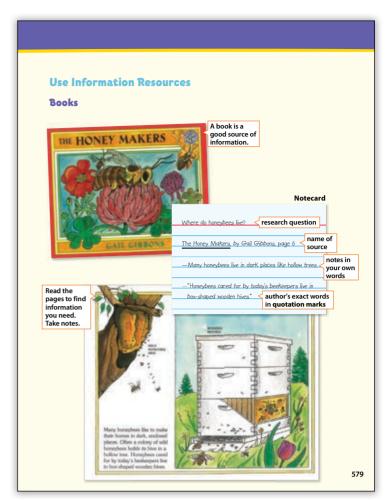


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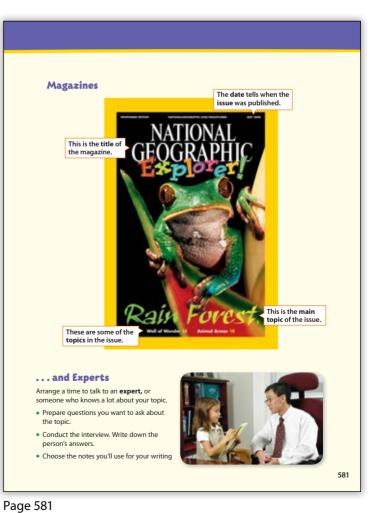


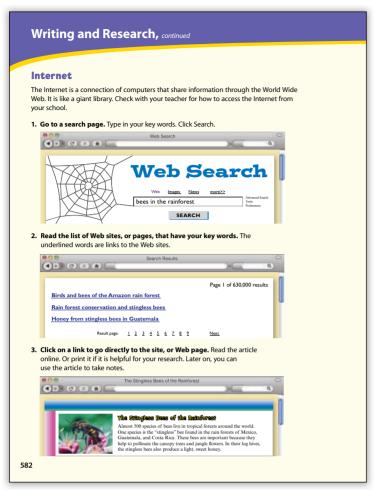
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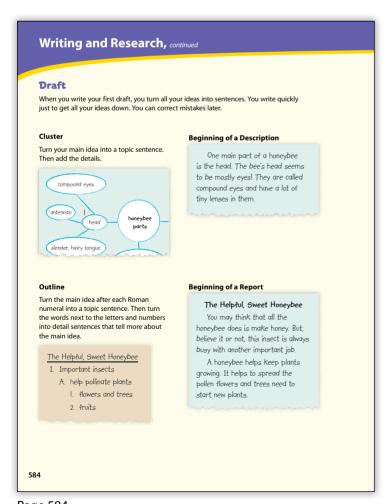


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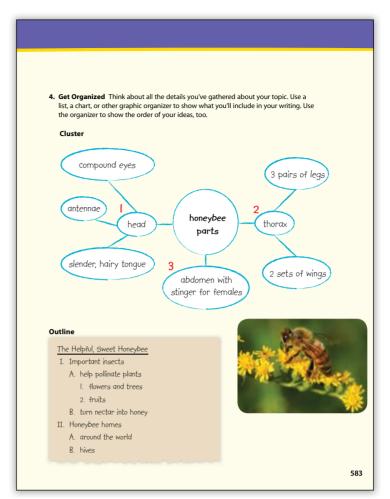




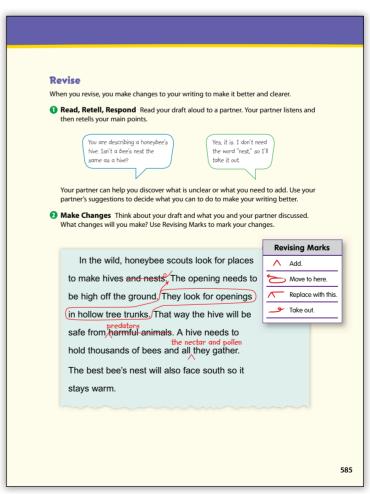
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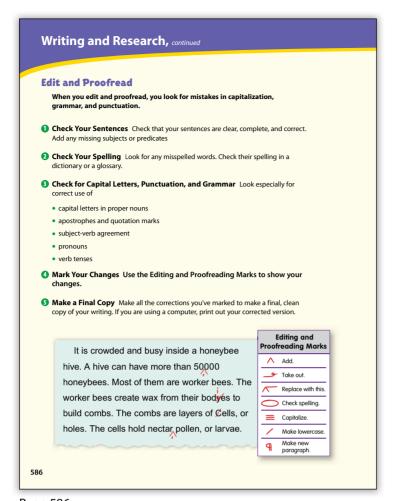
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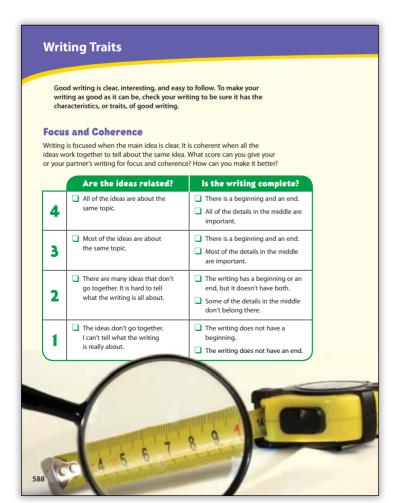
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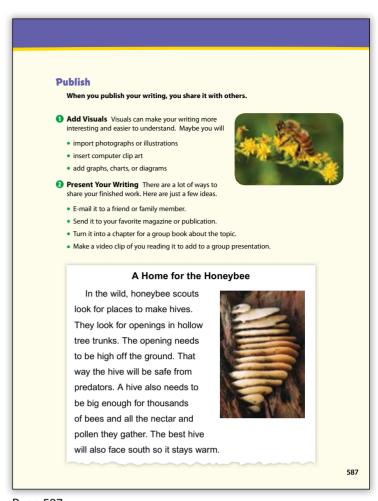
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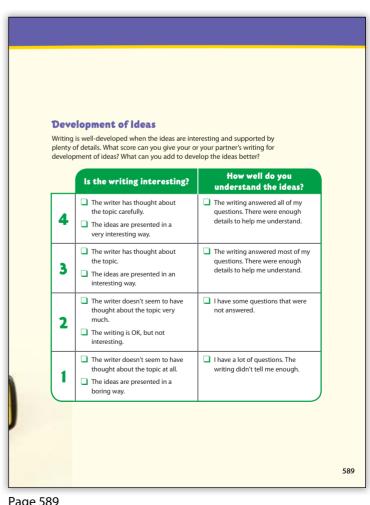
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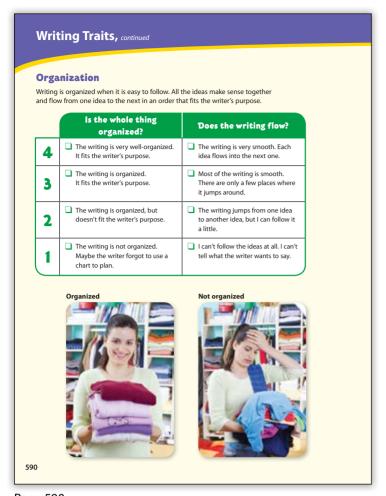
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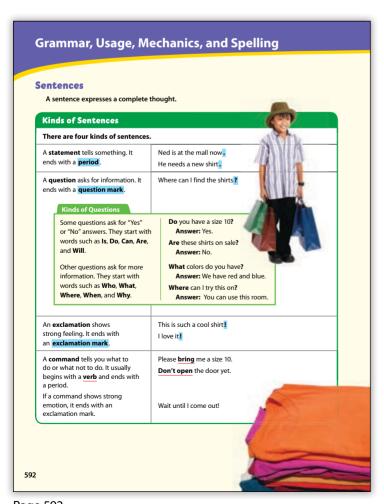
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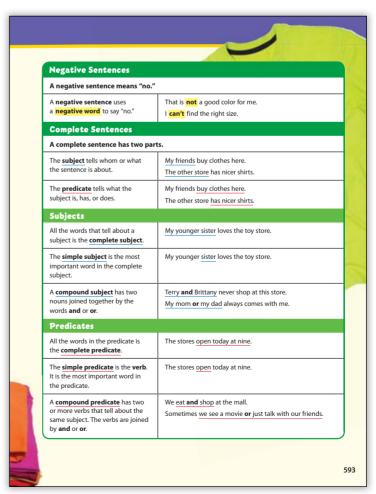
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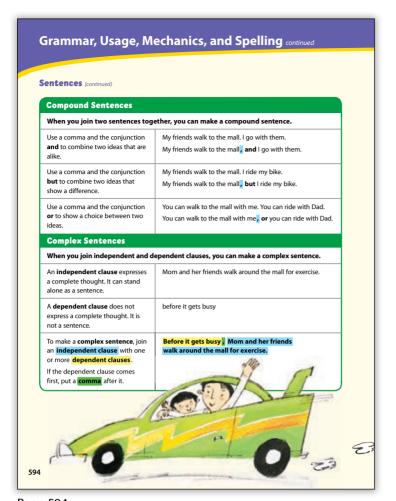
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writer is	riter has a special way of saying things, or s by the words the writer uses and how th	voice. Readers can always tell who the
	Does the writing sound real?	Do the words fit the purpose and audience?
4	The writing shows who the writer is.The writer is talking right to me.	The writer uses words that really fit the purpose and audience.
3	The writing shows who the writer is.The writer sounds real.	☐ The writer uses good words for the purpose and audience.
2	It's hard to tell who the writer is. The writer isn't talking to me.	The writer uses some words that fit the purpose and audience.
1	I can't tell who the writer is. The writer doesn't seem to care.	The words don't fit the purpose and audience.
Good w	Hello. This is Sorten Conventions viters always follow the rules of ar, punctuation, and spelling.	I can tell from your v
4	Are the sentences complete? Every sentence has a subject and a	Is the writing correct? All the punctuation, capitalization,
3	most of the sentences have a subject and a predicate.	and spelling is correct. Most of the punctuation, spelling, and capitalization is correct.
2	Some of the sentences are missing subjects or predicates.	The writing has several errors in punctuation and capitalization. Some words are misspelled.
	Several sentences are missing	☐ There are many errors. The writing

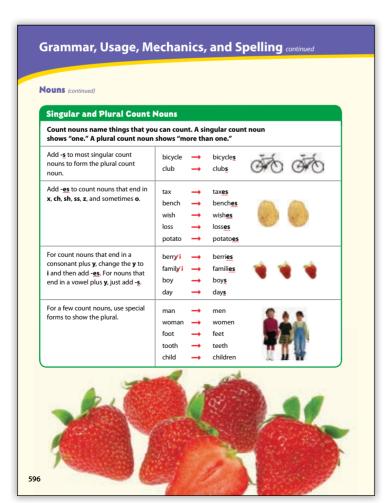
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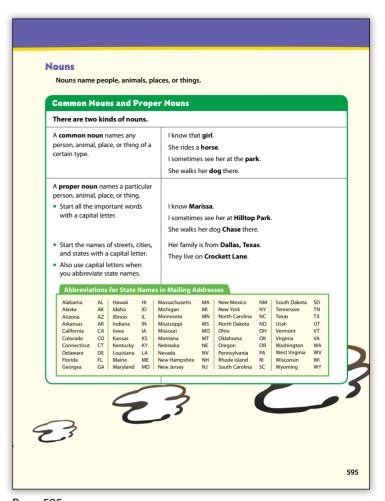
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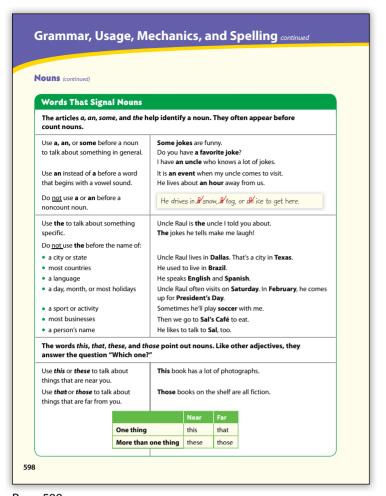


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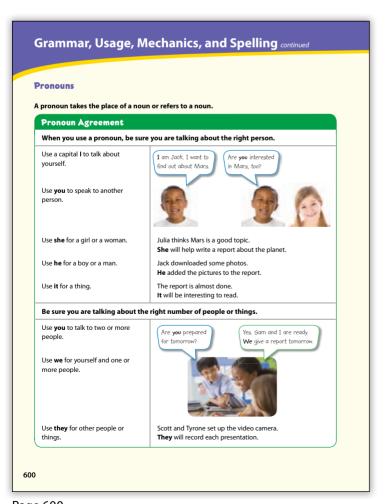


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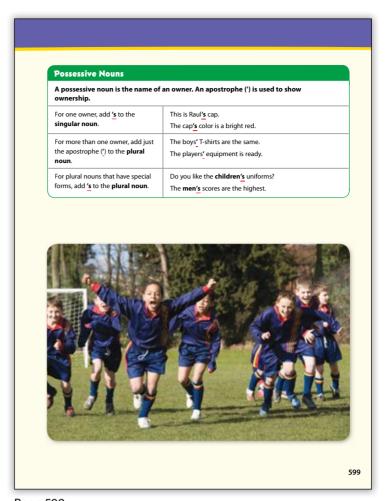
fog heat lightning thunder rain YES: Thunder and lightning scare my dog. NO: Thunders and lightnings scare my dog. Food Words Some food items can be counted by using a measurement word such as cup, slice, glass, or head plus the word of. To show the plural form, make the measurement word plural. Ideas and Feelings fun help honesty luck work YES: I need help to finish my homework. NO: I need helps to finish my homework. Category Nouns fog heat lightning thunder rain thunder and lightning scare my dog. Production of the soup scare my dog. I'm thirsty for milks. I want milks.
Some food items can be counted by using a measurement word such as cup , slice , glass , or head plus the word of. To show the plural form, make the measurement word plural. Ideas and Feelings Fun help honesty luck work YES: I need help to finish my homework.
YES: I need help to finish my homework. NO: I need helps to finish my homework.
<u> </u>
YES: My football equipment is in the car. NO: My football equipments is in the car.
Materials air gold paper water wood YES: Is the water in this river clean? NO: Is the waters in this river clean?
Activities and Sports baseball dancing golf singing soccer YES: I played soccer three times this week. NO: I played soccers three times this week.



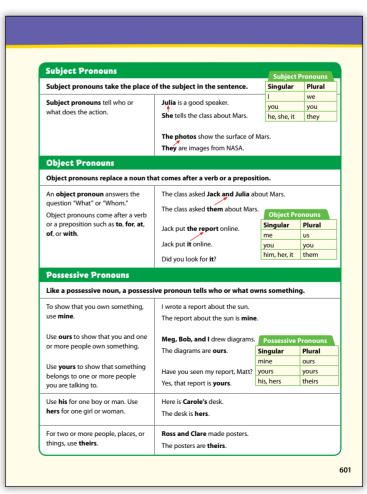
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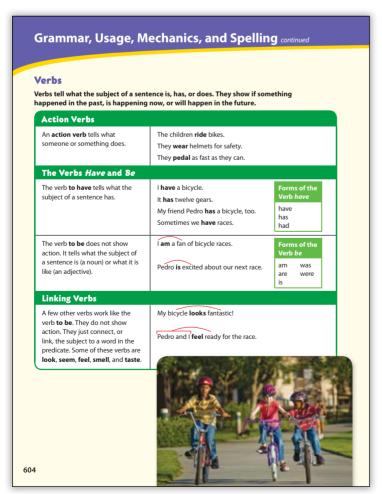
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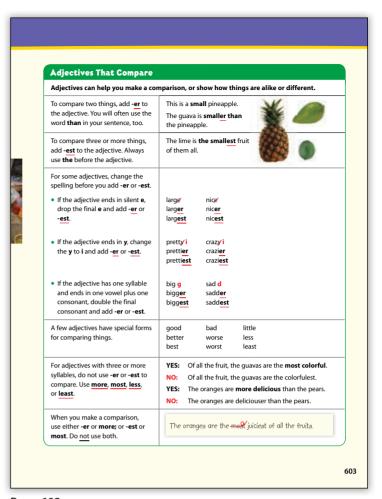
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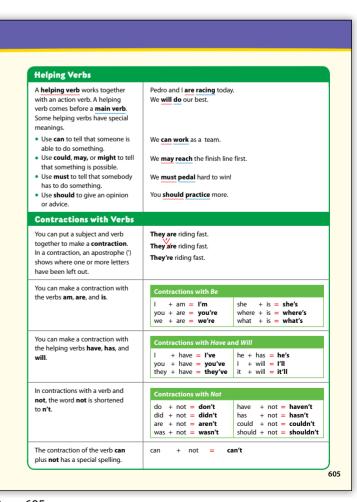
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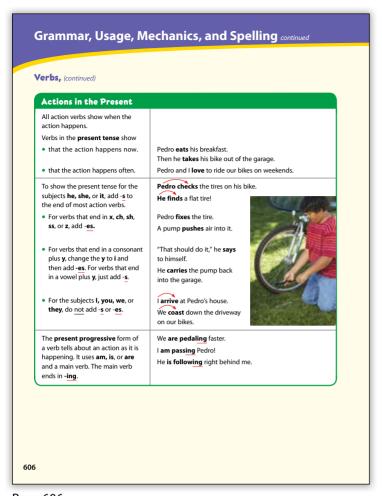


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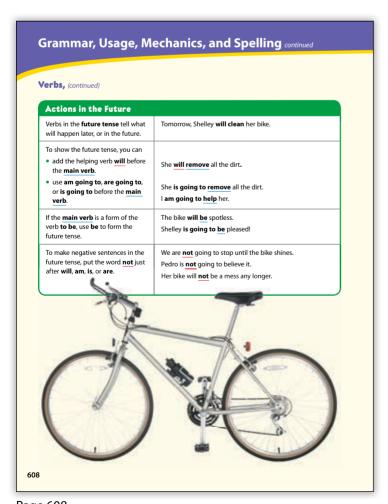


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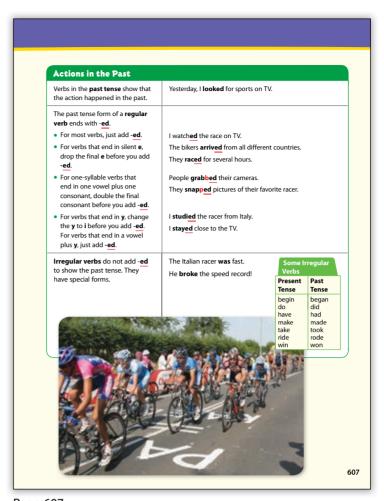




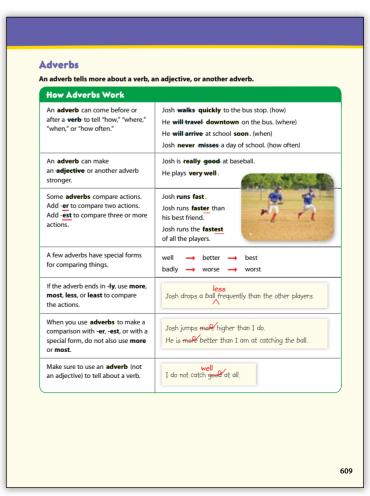
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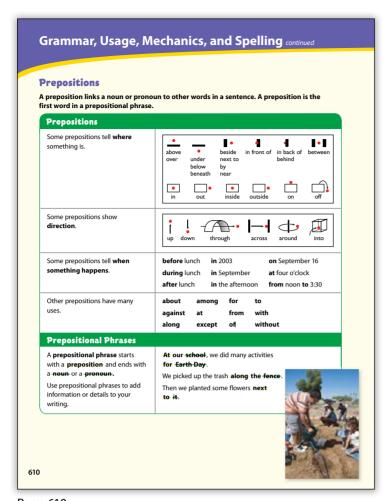
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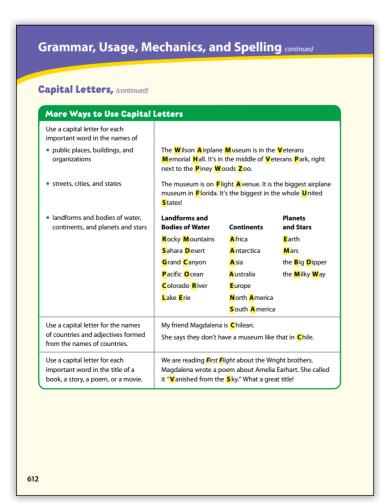
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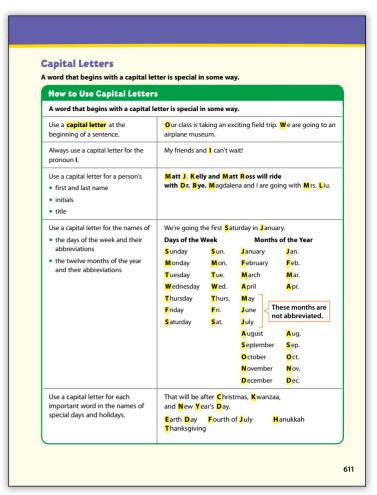
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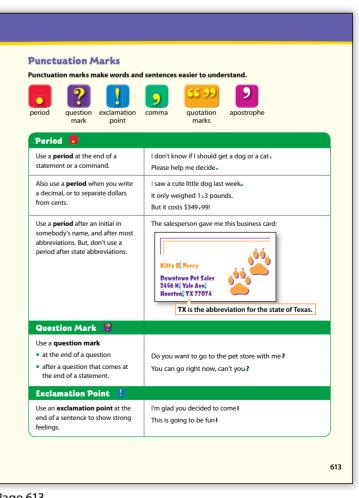
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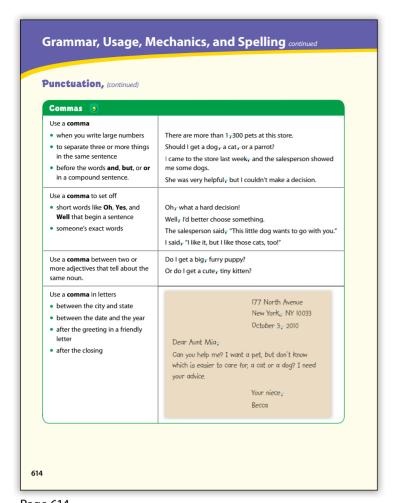


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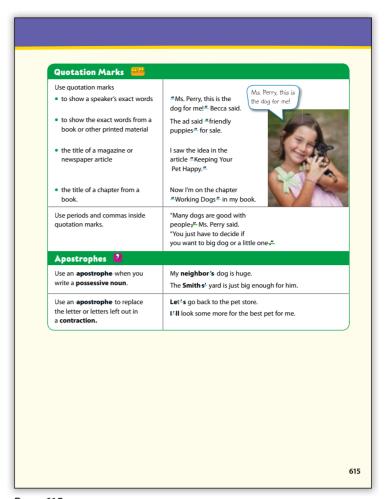


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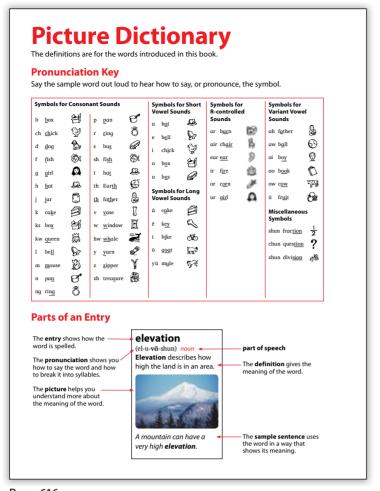


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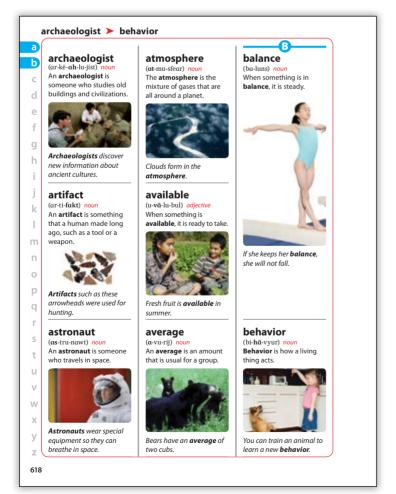


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Anthology Picture Dictionary



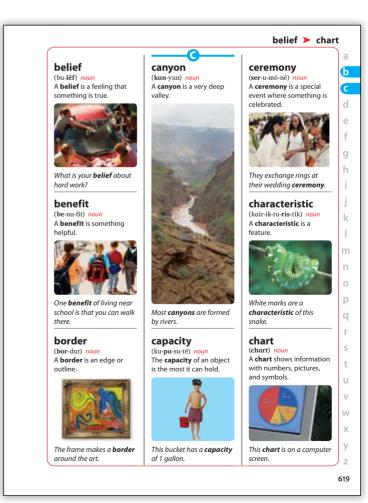
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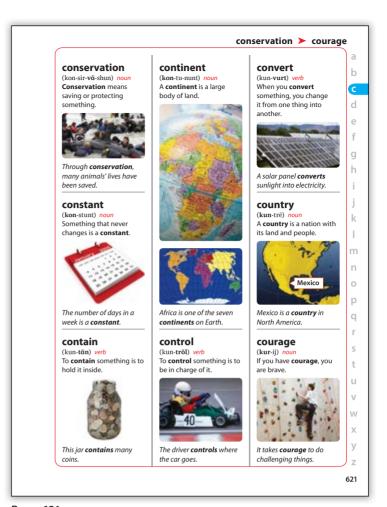
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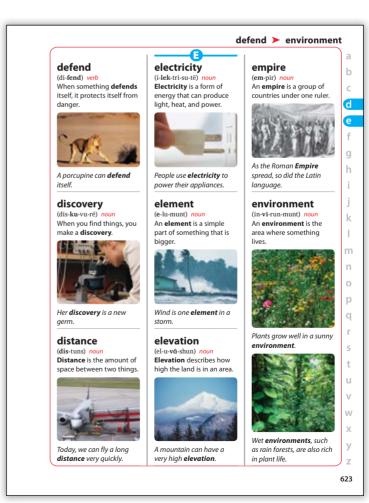
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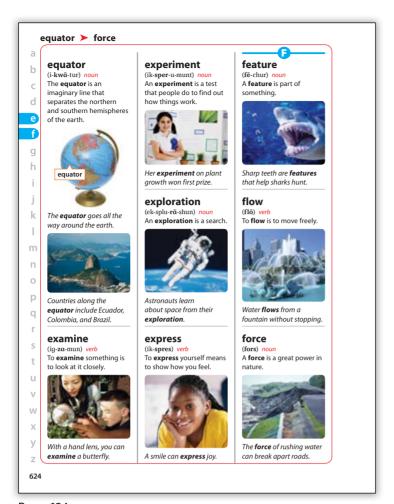


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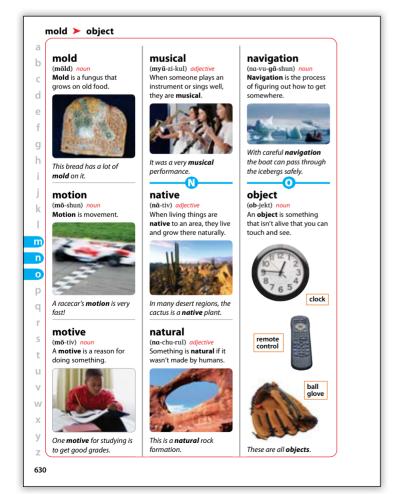
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Anthology Picture Dictionary, continued



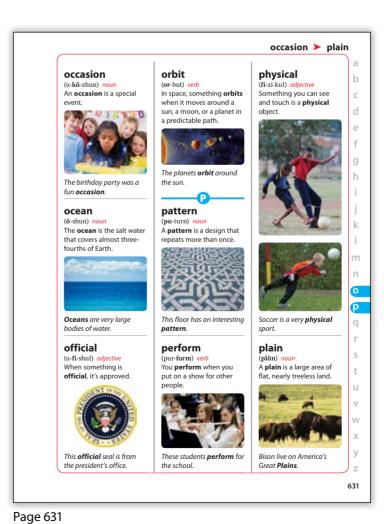
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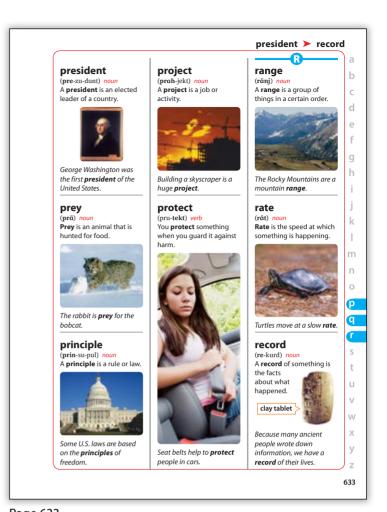




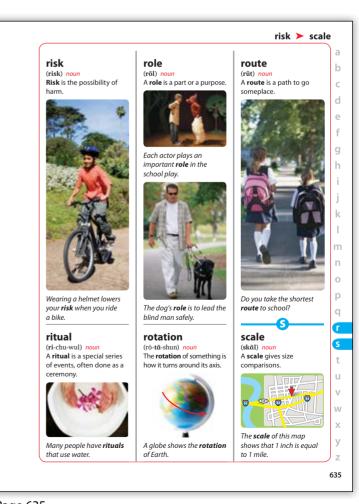
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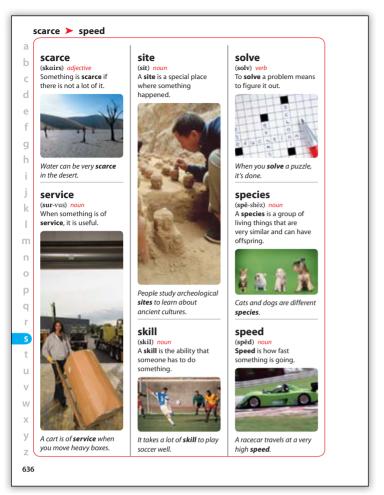
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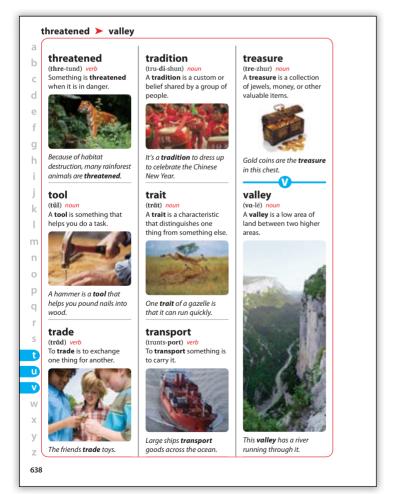
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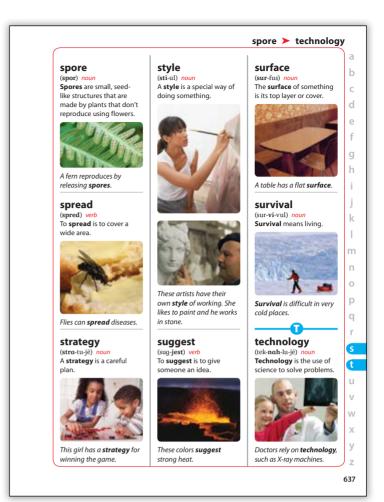
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Scope and Sequence

			Gra	ade		
Reading	K	1	2	3	4	5
LITERATURE						
Key Ideas and Details						
Retell or Explain a Story	•	•	•	•	•	•
Analyze Story Elements	•	•	•	•	•	•
Plot	•	•	•	•	•	•
Characters	•	•	•	•	•	•
Setting	•	•	•	•	•	•
Theme, Lesson, or Moral		•	•	•	•	•
Use Reading Strategies	•	•	•	•	•	•
Preview and Make Predictions	•	•	•	•	•	•
Monitor Understanding	•	•	•	•	•	•
Ask and Answer Questions	•	•	•	•	•	•
Summarize Texts	•	•	•	•	•	•
Make Inferences	•	•	•	•	•	•
Visualize	•	•	•	•	•	•
Make Connections	•	•	•	•	•	•
Synthesize: Draw Conclusions			•	•	•	•
Synthesize: Draw Generalizations			•	•	•	•
Relate Ideas	•	•	•	•	•	•
Chronology	•	•	•	•	•	•
Comparison	•	•	•	•	•	•
Cause/Effect		•	•	•	•	•
Goal/Outcome				•	•	•
Problem/Solution					•	•
Craft and Structure						
Determine the Meaning of Words and Phrases in a Text	•	•	•	•	•	•
Identify Elements of Genre	•	•	•	•	•	•
Describe Structure of Stories, Dramas, and Poems			•	•	•	•
Identify Introduction and Conclusion			•	•	•	•
Identify Text Segments: Chapter, Scene, Stanza				•	•	•
Identify Elements of Poetry: Rhyme, Rhythm	•	•	•	•	•	•
Identify Elements of Poetry: Verse, Meter, Line Breaks					•	•
Identify Elements of Drama: List of Characters, Dialogue, Stage Directions					•	•
Compare Drama and Prose			•	•	•	•
Compare Poetry and Prose			•	•	•	•
Identify Author and Illustrator	•	•	•	•	•	•
Identify Narrator		•	•	•	•	•
Identify and Distinguish Points of View			•	•	•	•

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Reading, continued	K	1	2	3	4	5
Integration of Knowledge and Ideas						
Analyze Text Elements	•	•	•	•	•	•
Use Information in Illustrations	•	•	•	•	•	•
Connect Text and Oral or Visual Presentation of Story or Versions of a Story	•	•	•	•	•	•
Analyze Visual or Multimedia Elements in a Text		•	•	•	•	•
Compare Ideas or Texts	•	•	•	•	•	•
Compare Fiction and Nonfiction	•	•	•	•	•	•
Compare Characters	•	•	•	•	•	•
Compare Settings	•	•	•	•	•	•
Compare Events	•	•	•	•	•	•
Compare Topics	•	•	•	•	•	•
Compare Themes				•	•	•
Range of Reading and Level of Text Complexity						
Read and Comprehend Literature at and Above Grade Level Complexity	•	•	•	•	•	•
Participate in Shared Reading	•	•	•	•	•	•
Read Independently	•	•	•	•	•	•

INFORMATIONAL TEXT						
Key Ideas and Details						
Retell or Explain a Text	•	•	•	•	•	•
Use Reading Strategies	•	•	•	•	•	•
Preview and Make Predictions	•	•	•	•	•	•
Monitor Understanding	•	•	•	•	•	•
Ask and Answer Questions	•	•	•	•	•	•
Determine Importance: Identify the Topic, Main Idea, and Key Details	•	•	•	•	•	•
Determine Importance: Summarize		•	•	•	•	•
Make Inferences	•	•	•	•	•	•
Visualize	•	•	•	•	•	•
Make Connections	•	•	•	•	•	•
Synthesize: Draw Conclusions			•	•	•	•
Synthesize: Make Generalizations			•	•	•	•
Relate Ideas and Describe Text Structure	•	•	•	•	•	•
Logical Order	•	•	•	•	•	•
Chronology	•	•	•	•	•	•
Comparison		•	•	•	•	•
Cause/Effect		•	•	•	•	•
Problem/Solution, Goal/Outcome		•	•	•	•	•
Compare Text Structure					•	•

	Grade					
Reading, continued	K	1	2	3	4	5
Craft and Structure					_	
Determine the Meaning of Words and Phrases in a Text	•	•	•	•	•	•
Identify and Use Text Features	•	•	•	•	•	•
Covers and Title Page	•	•	•	•	•	•
Table of Contents or Electronic Menus	•	•	•		•	
Headings and Subheadings		•	•	•	•	•
Topic Sentence			•	•	•	•
Glossaries and Indexes		•	•	•	•	•
Captions, Labels, Icons, Hyperlinks and Callouts		•	•		•	•
Graphs, Diagrams, Tables, and Maps		•	•		•	•
Sidebars				•	•	•
Distinguish Between Information in Illustrations and Information in Text	•	•	•	•	•	•
Identify Author and Illustrator	•	•	•		•	•
Identify Author's Purpose		•	•		•	•
Distinguish Points of View or Accounts				•	•	•
Integration of Knowledge and Ideas						
Use Information in Illustrations and Media	•	•	•	•	•	•
Interpret Information Presented in Multiple Formats					•	•
Identify and Distinguish Facts and Opinions		•	•	•	•	•
Identify Author's Reasons and Evidence	•	•	•	•	•	•
Explain Connections Within a Text		•	•	•	•	•
Compare Texts	•	•	•	•	•	•
Range of Reading and Level of Text Complexity						
Read and Comprehend Text at and above Grade Level Complexity		•	•	•	•	•
Participate in Shared Reading	•	•	•	•	•	•
Read Independently	•	•	•	•	•	•

	Grade							
Reading, continued	K	1	2	3	4	5		
FOUNDATIONAL SKILLS								
Print Concepts								
Understand Directionality of Text	•	•	•					
Recognize the Relationship of Letters and Words to Speech	•	•						
Recognize and Name Alphabet Letters	•	•						
Know the Order of the Alphabet	•	•						
Identify Letters	•	•	•					
Match Uppercase and Lowercase Letters	•	•	•					
Identify a Word	•	•	•					
Identify End Punctuation	•	•	•					
Identify Title	•	•	•	6				
Hold a Book and Turn the Pages	•	•	•		Reach	-		
Identify Sentence Capitalization	•	•	•		No.	3 .		
Use Page Numbers	•	•	•	100	W			
Identify Dialogue			•		h into Phon e interventi			
Identify Indentions of Paragraphs			•	for found	ational reac			
Phonological Awareness				in grades	3–5.			
Distinguish Long and Short Vowel Sounds	•	•	•					
Isolate Words in a Sentence	•	•	•					
Identify Syllables	•	•	•					
Blend Syllables to Form a Word	•	•	•					
Segment a Word into Syllables	•	•	•					
Identify Rhyming Words	•	•	•					
Generate Rhyming Words	•	•	•					
Match Initial, Medial, and Final Sounds	•	•	•					
Identify and Isolate Initial, Medial, and Final Sounds	•	•	•					
Blend Onset and Rime	•	•	•					
Blend Sounds to Form a Word	•	•	•					
Segment a Word into Sounds	•	•	•					
Manipulate Sounds in Words (Add, Delete, Substitute)	•	•	•					

	Grade								
Reading, continued	K	1	2	3	4	5			
Phonics and Word Recognition									
Identify Letter/Sounds and Read Words	•	•	•						
Consonants	•	•	•						
Short Vowels	•	•	•						
Long Vowels	•	•	•						
Consonant Blends and Digraphs	•	•	•						
Vowel Digraphs: ai, ay, ee, ea, ie, igh, oa, ow, oo, ou, ui	•	•	•						
r-Controlled Vowels: ar, or, -ore, er, ir, ur, air, -are, eer, ear		•	•						
Sounds for -y: /ē/, /ī/	•	•	•						
Diphthongs: oi, oy, ou, ow	•	•	•						
Variant Vowels: aw, au, al, all, oo, ew, ea	•	•		6					
Vowel Patterns: -igh, -old, -alk	•	•	•		Reach	2			
Vowel Patterns: o, i, -ight			•		100	1			
Schwa			•	1	W 100 au				
Soft c	•	•	•		Use Reach into Phonics to provide intervention				
Soft g	•	•	•	for found	ational read				
Silent Consonants kn, wr, gn, mb	•	•	•	in grades	3-5.				
Plurals -s, -es, -ies		•	•						
Read Words with Spelling Patterns		•	•						
CVCe Word Patterns with a, i, o, u, e	•	•	•						
CV Word Patterns with o, e	•	•	•						
Short and Long Vowels in CVC and CVCe Word Patterns	•	•	•						
CVVC Word Patterns		•	•						
Read Multisyllabic Words		•	•						
Compound Words		•	•						
VCCV Syllable Division (bas/ket, kit/ten)		•	•						
VCCCV Syllable Division (hun/dred)		•	•						
VCV Syllable Division (mu/sic, cab/in)		•	•						
Words with Consonant + le		•	•						
Suffixes		•	•						
Prefixes		•	•						
Inflected Forms		•	•						
Syllable Types: r -Controlled, Consonant + le , Vowel Team, Vowel + Silent e		•	•						
Final Syllables with -tion, -ture, -ent, -ant			•						

			Gr	ade		
Reading, continued	K	1	2	3	4	5
Phonics and Word Recognition, continued						
Use Decoding Strategies	•	•	•			
Blend Sounds to Decode Words						
Recognize Word Families and Similarly-Spelled Words	•	•	•			
Use Structural Clues		•	•			
Identify Syllable Types		•	•			
Recognize High Frequency Words	•	•	•			
Distinguish Between Similarly-Spelled Words	•	•	•			
Read Irregularly-Spelled Words	•	•	•			
Fluency						
Read with Purpose and Understanding	•	•	•	•	•	•
Read with Accuracy and Appropriate Rate	•	•	•	•	•	•
Use Phrasing		•	•	•	•	•
Read with Expression		•	•	•	•	•
Read with Correct Intonation		•	•	•	•	•
Read Instructional Level Materials Fluently	•	•	•	•	•	•
Use Context to Support Decoding	•	•	•	•	•	•

Writing

Text Types and Purposes						
Opinion Pieces	•	•	•	•	•	•
Informative/Explanatory Text	•	•	•	•	•	•
Interview			•	•	•	•
Letter or Email		•	•	•	•	•
Report			•	•	•	•
Persuasive Essay				•	•	•
Procedural Text		•	•	•	•	•
Explanatory Text		•	•	•	•	•
Narratives	•	•	•	•	•	•
Story or Account	•	•	•	•	•	•
Character Sketch				•	•	•
Poem		•	•	•	•	•
Tall Tale/Myth/Trickster Tale/Folk Tale			•	•	•	•
Science Fiction Story					•	•
Response Text	•	•	•	•	•	•
Write to Demonstrate Comprehension	•	•	•	•	•	•

			Gr	ade		
Writing, continued	K	1	2	3	4	5
Writing Skills						
Organization and Purpose	•	•	•	•	•	•
Introduce a Topic	•	•	•	•	•	•
Write a Conclusion	•	•	•	•	•	•
Establish and Follow a Purpose	•	•	•	•	•	•
Identify Context for Formal and Informal English	•	•	•	•	•	•
State Main Ideas and Support with Details		•	•	•	•	•
Introduce and State an Opinion	•	•	•	•	•	•
Supply Reasons and Evidence		•	•	•	•	•
Write Facts, Definitions, and Details	•	•	•	•	•	•
Maintain Point of View					•	•
Use Persuasive Techniques or Language		•	•	•	•	•
Organize Writing	•	•	•	•	•	•
Sequence Events	•	•	•	•	•	•
Fiction			•	•	•	•
Include Dialogue					•	•
Tell About Events and Details	•	•	•	•	•	•
Introduce Characters or a Narrator				•	•	•
Word Choice	•	•	•	•	•	•
Use Signal Words		•	•	•	•	•
Use Concrete Words and Phrases		•	•	•	•	•
Use Sensory Words and Phrases		•	•	•	•	•
Use Figurative Language					•	•
Use Colorful Details to Elaborate				•	•	•
Use Linking Words		•	•	•	•	•
Use Quotations		•	•	•	•	•
Use Precise Language and Vocabulary				•	•	•
Use Your Own Words	•	•	•	•	•	•
Sentence Fluency	•	•	•	•	•	
Connect Ideas				•	•	•
Break Up Long Sentences				•	•	•
Combine Sentences				•	•	•
Vary Sentences		•	•	•	•	•
Production and Distribution of Writing						
Produce Writing for Specific Tasks, Purposes, and Audiences	•	•	•	•	•	•
Prewrite		•	•	•	•	•
Analyze a Model		•	•	•	•	•
Determine the Role, Audience, Form, and Topic		•	•	•	•	•
Organize Ideas		•	•	•	•	•

			Gra	ade		
Writing, continued	K	1	2	3	4	5
Production and Distribution of Writing, continued						
Draft	•	•	•	•	•	•
Use Appropriate Development and Organization		•	•	•	•	•
Use Technology to Produce Writing	•	•	•	•	•	•
Demonstrate Keyboarding Skills					•	•
Revise	•	•	•	•	•	•
Respond to Peer Suggestions	•	•	•	•	•	•
Add, Combine, or Delete Details	•	•	•	•	•	•
Edit and Proofread		•	•	•	•	•
Publish and Present	•	•	•	•	•	•
Use Visuals or Multimedia to Enhance Meaning		•	•	•	•	•
Keep a Portfolio	•	•	•	•	•	•
Writing Traits						
Ideas		•	•	•	•	•
Organization		•	•	•	•	•
Voice		•	•	•	•	•
Word Choice		•	•	•	•	•
Sentence Fluency		•	•	•	•	•
Conventions		•	•	•	•	•
Presentation		•	•	•	•	•
Research to Build and Present Knowledge						
Create Research and Writing Projects	•	•	•	•	•	•
Recall or Gather Information	•	•	•	•	•	•
Choose and Focus a Topic	•	•	•	•	•	•
Develop Research Questions					•	•
Locate Sources of Information		•	•	•	•	•
Evaluate Information					•	•
Find Information in Sources			•	•	•	•
Take and Sort Notes			•	•	•	•
Distinguish Plagiarism from Quoting or Paraphrasing					•	•
Distinguish Relevant from Irrelevant Information		•	•	•	•	•
Integrate Information from Multiple Sources				•	•	•
Provide a List of Sources				•	•	•
Draw Evidence from Text to Support Analysis, Reflection, and Research				•	•	•
Range of Writing						
Write Routinely for a Variety of Tasks, Purposes, and Audiences	•	•	•	•	•	•

	Grade					
Speaking and Listening	K	1	2	3	4	5
Comprehension and Collaboration						
Engage in Collaborative Discussions	•	•	•	•	•	•
Follow Agreed-Upon Rules	•	•	•	•	•	•
Build on and Connect Others' Idea	•	•	•	•	•	•
Ask for Clarification	•	•	•	•	•	•
Come to Discussions Prepared	•	•	•	•	•	•
Explain and Review Ideas and Understanding	•	•	•	•	•	•
Restate Ideas	•	•	•	•	•	•
Elaborate	•	•	•	•	•	•
Evaluate Information Presented in Diverse Media and Formats	•	•	•	•	•	•
Analyze the Message			•	•	•	•
Identify or Describe Media Elements including Visual, Functional and Auditory Details		•	•	•	•	•
Ask and Answer Questions for Information, Clarification, or Understanding	•	•	•	•	•	•
Identify a Speaker's Reasons and Evidence					•	•
Presentation of Knowledge and Ideas						
Describe with Facts and Details	•	•	•	•	•	•
Tell a Story	•	•	•	•	•	•
Recount an Experience	•	•	•	•	•	•
Report on a Text or Topic	•	•	•	•	•	•
Present an Opinion					•	•
Speak Clearly, at an Appropriate Pace	•	•	•	•	•	•
Organize Ideas					•	•
Add Visual, Audio, or Multimedia Support	•	•	•	•	•	•
Produce Complete Sentences	•	•	•	•	•	•
Adapt Speech to the Context and Task	•	•	•	•	•	•

Language

Conventions of Standard English						
Print Upper and Lower Case Letters	•	•				
Sentences	•	•	•	•	•	•
Statements, Questions, Exclamations, and Commands	•	•	•	•	•	•
Negative Sentences	•	•	•	•	•	•
Compound Sentences		•	•	•	•	•
Complex Sentences				•	•	•
Complete Subject	•	•	•	•	•	•
Simple Subject	•	•	•	•	•	•
Compound Subject		•	•	•	•	•

	Grade					
Language, continued	K	1	2	3	4	5
Conventions of Standard English, continued						
Complete Predicate	•	•	•	•	•	•
Simple Predicate	•	•	•	•	•	•
Compound Predicate		•	•	•	•	•
Complete Sentences	•	•	•	•	•	•
Fragment/Dependent Clause					•	•
Independent Clause			•	•	•	•
Participial Phrases						•
Run-On Sentences			•	•	•	•
Subject-Verb Agreement	•	•	•		•	•
Parts of Speech	•	•	•	•	•	•
Nouns	•	•	•	•	•	•
Common and Proper		•	•	•	•	•
Count and Noncount		•	•	•	•	•
Plurals	•	•	•	•	•	•
Possessive		•	•	•	•	•
Abstract				•		
Articles/Determiners		•	•	•	•	•
Pronouns		•	•	•	•	•
Subject	•	•	•	•	•	•
Object	•	•	•	•	•	•
Demonstrative			•	•	•	•
Indefinite		•	•	•	•	•
Reflexive			•	•	•	•
Relative					•	
Possessive		•	•	•	•	•
Pronoun Agreement	•	•	•	•	•	•
Adjectives	•	•	•	•	•	•
Comparative and Superlative			•	•	•	•
Relative					•	
Demonstrative	•	•	•	•	•	•
Predicate					•	•
Possessive		•	•	•	•	•
Indefinite		•	•	•	•	
Proper						•
Order within Sentences					•	•

	Grade					
Language, continued	K	1	2	3	4	5
Conventions of Standard English, continued						
Verbs	•	•	•	•	•	•
Action	•	•	•	•	•	•
Transitive/Intransitive	•	•	•	•	•	•
Linking			•	•	•	•
Modals			•	•	•	•
Helping			•	•	•	•
Present Tense	•	•	•	•	•	•
Past Tense (Regular and Irregular)		•	•	•	•	•
Future Tense		•	•	•	•	•
Present-Perfect Tense						•
Past-Perfect Tense						•
Future-Perfect Tense						•
Progressive Forms		•	•	•	•	•
Contractions		•	•	•	•	•
Adverbs		•	•	•	•	•
Comparative and Superlative			•	•	•	•
Relative					•	•
Adverbial Clauses					•	•
Prepositions	•	•	•	•	•	•
Prepositional Phrases			•	•	•	•
Conjunctions	•	•	•	•	•	•
Coordinating		•	•	•	•	•
Subordinating		•	•	•	•	•
Correlative						•
Interjections						•
Mechanics	•	•	•	•	•	•
Capitalization	•	•	•	•	•	•
End Punctuation	•	•	•	•	•	•
Abbreviations			•	•	•	•
Comma		•	•	•	•	•
Apostrophe			•	•	•	•
Quotation Marks				•	•	•
Underlining or Italics						•
Spelling	•	•	•	•	•	•
High Frequency Words	•	•	•	Use R	each into Pho	nics for
Use Phonetic Knowledge to Spell	•	•	•		onal spelling ski	
Consult Reference Materials to Check Spelling		•	•	•	•	•
Use Spelling Patterns	•	•	•	•	•	•

Grade						
Language, continued	K	1	2	3	4	5
Knowledge of Language						
Compare Formal and Informal Uses of English	•	•	•		•	•
Recognize the Difference Between Spoken and Written English	•	•	•	•	•	
Choose Words and Phrases or Punctuation for Effect				•	•	•
Vary Sentences for Meaning, Interest, and Style		•	•	•	•	•
Vocabulary Acquisition and Use						
Determine Meanings of Unfamiliar and Multiple-Meaning Words	•	•	•	•	•	•
Acquire and Use Academic Vocabulary	•	•	•	•	•	•
Acquire and Use Domain-Specific Vocabulary	•	•	•	•	•	•
Use Inflections and Affixes	•	•	•	•	•	•
Use Context	•	•	•	•	•	•
Use Root Words		•	•	•	•	•
Use Prefixes and Suffixes		•	•	•	•	•
Use Individual Words Within Compound Words		•	•	•	•	•
Use a Glossary, Dictionary, and Thesaurus		•	•	•	•	•
Explore Word Relationships	•	•	•	•	•	•
Categorize Words	•	•	•	•	•	•
Identify Antonyms	•	•	•	•	•	•
Identify Synonyms	•	•	•	•	•	•
Identify Homographs					•	•
Identify Homophones					•	•
Connect Between Words and Their Uses	•	•	•	•	•	•

Distinguish Shades of Meaning

Use Analogies

and Sayings

Figurative and Literary Language

Identify Personification

Explain Similes and Metaphors

Identify Feeling Words and Sensory Words Distinguish Literal from Nonliteral Meanings

Interpret Idioms, Expressions, Dialect, Adages, Proverbs,

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Grade 4 Common Core Standards

Reading

Strand	Code	Standards Text	Grade 4 Units 1–8 Standards Correlations
Literature			
Key Ideas and Details	CC.4.Rlit.1	(1) Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.	Unit 1: SG18, SG19, SG20, SG21; Unit 2: T74,T75, T75a, T76, T80, T81, T82–83, T84–85, T86–87, T88–89, T90, T91, T92–93, T94, T95, T95a, T95b, T96, T96a, T97, SG6, SG7, SG8, SG9, SG12, SG13, SG14, SG15; Unit 3: T166a, T169; Unit 4: T252, T253, T254–255, T256–257, T258, T259, T268, T268a, T269, T270c, T271, T272, T273; Unit 5: T288, T289, T291, T292, T293, T294, T297, T300, T301, T302, T302a, SG8, SG9, SG14, SG15; Unit 6: T356a, T357, T358, T359, T362–363, T364–365, T366–367, T368–369, T378, T378a, T379j; Unit 7: T475b, T476, T476a, T477, T481a, T482, SG20, SG21; Unit 8: T499, T500–501, T502–503, T504–505, T506–507, T509, T510–511, T512, T513, T513a, T514, T514a, T515, T559g
	CC.4.Rlit.2	(2) Determine a theme of a story, drama, or poem from details in the text; summarize the text.	Unit 1: T52, T57b, T58, T58a, T59, SG20, SG21, SG27; Unit 2: SG9, SG15; Unit 3: T143j, T147a, T148, T153, T158, T160, T161, T164, T166a, T167, T170, T173f, T173g, T173h, SG8, SG9, SG12, SG13, SG14, SG15; Unit 4: T260, T262—263, T268, T269, SG21, SG27; Unit 5: T284, T285, T285a, T286, T297, T300, T301, T302, T302a, T303, SG8, SG9, SG14, SG15; Unit 6: T358, T359, T372, T373, T376, T377, SG9, SG14, SG15; Unit 7: T470, T475, T476, T476a, SG21, SG27; Unit 8: T508, T509, T514, T514a, SG9, SG14, SG15
	CC.4.Rlit.3	(3) Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text (e.g., a character's thoughts, words, or actions).	Unit 1: T36, T37, T37a, T38a, T38a, T48–49, T50–51, T53, T56, T65a, T65b, T65f, T65g, T65h; Unit 2: T71i, T71o, T71p, T75a, T76, T80, T81, T82–83, T84–85, T86–87, T88–89, T95b, T96, T96a, T97, T97a, T97b, T97c, T97q, T98a, T98b, T98c, T99, T100, T101, T102, T103, T103a, T104, T105, SG8; Unit 3: T143i; Unit 4: T252, T253, T254–255, T256–257, T258, T259; Unit 5: T296, T298–299, T301a; Unit 6: T355a, T356a, T356a, T357, T374–375, T376, T377a, T378, T378a, T385g, SG8, SG9; Unit 7: SG26; Unit 8: T500–501, T506–507, T508, T509, T510–511, T512, SG14
Craft and Structure	CC.4.Rlit.4	(4) Determine the meaning of words and phrases as they are used in a text, including those that allude to significant characters found in mythology (e.g., Herculean).	Unit 1: T4, T5, T5a, T6a, T7, T8, T36, T38a; Unit 2: T72, T74, T75, T75a, T76, T106, T107, T108, T108a, T109; Unit 3: SG15; Unit 4: T216, T217, T217a, T218, T218a, T219, T237o, T238, T238c, T240, T246, T247, T247a, T248a, T249, T250, T269q, T270a, T273a, T275a, T275b, T275c, T275d, T275e, T275f, T275g, T270c, T271, T272; Unit 5: T284, T285, T285a, T288, T289, T314, T315, T316a, T317; Unit 6: T354, T355, T355a, T356a, T357, T358, T386, T387, T388a, T389; Unit 7: T426, T427, T428a, T429, T454, T455, T455a, T456a, T457, T458; Unit 8: T492, T493, T494a, T495, T526, T527, T528a, T529, T530, T531
	CC.4.Rlit.5	(5) Explain major differences between poems, drama, and prose, and refer to the structural elements of poems (e.g., verse, rhythm, meter) and drama (e.g., casts of characters, settings, descriptions, dialogue, stage directions) when writing or speaking about a text.	Unit 3: T173a, T173b, T173d; Unit 4: T272, T273; Unit 6: T361, T362–363, T364–365, T366–367, T368–369, T374–375, T383a
	CC.4.Rlit.6	(6) Compare and contrast the point of view from which different stories are narrated, including the difference between first- and third-person narrations.	Unit 5: T292, T295; Unit 7: T478a, T478b; Unit 8: T540–541, T546–T547, T557a
Integration of Knowledge and Ideas	CC.4.Rlit.7	(7) Make connections between the text of a story or drama and visual or oral presentation of the text, identifying where each version reflects specific descriptions and directions in the text.	Unit 3: T153, T156–157, T159, T198a, T198b; Unit 4: T260, T261, T267
	CC.4.Rlit.9	(9) Compare and contrast the treatment of similar themes and topics (e.g. opposition of good and evil) and patterns of events (e.g the quest) in stories, myths, and traditional literature from different cultures.	Unit 2: T90, T91, T92-93, T94, T95, T95a, T97j, T98a, T98b, T99, T100, T102, T103a, T104, T105a, T105b, T105d, T105g, T105h; Unit 6: T379j, T385f, T385g, T385h; Unit7: T481a, T482; Unit 8: T523a, T559g
Range and Level of Text Complexity	CC.4.Rlit.10	(10) By the end of the year, read and comprehend literature, including stories, dramas, and poetry at the high end of the grades 4-5 text complexity band proficiently, with scaffolding as needed at the high end of the range.	Unit 1: T35r, T37a, T43, T44–45, T46–47, T48–49, T50–51, T53, T54–55, T56, T57, T63a, T64a, T65, SG18, SG19, SG20, SG21, SG24, SG25, SG26, SG27; Unit 2: T71j, T91, T92–93, T94, T95, T97j, SG6, SG7, SG8, SG9, SG12, SG13, SG14, SG15; Unit 3: T143j, T153, T154–155, T156–157, T158, T159, T160, T161, T162–163, T164, T165, T165a, T167j, T168c, T169, T170, T173r, SG6, SG7, SG8, SG9; Unit 4: T245r, T247, T247a, T248a, T249, T250, T251, T269j, SG18, SG19, SG20, SG21, SG24, SG25, SG26, SG27; Unit 5: T281j, T284, T285a, T286, SG6, SG7, SG8, SG9, SG12, SG13, SG14, SG15; Unit 6: T351j, SG6, SG7, SG8, SG9, SG12, SG13, SG14, SG15; Unit 7: T453r, T454, T455, T455a, T456a, T456, T456a, T457, T458, T459, T460, T461, T462–463, T464–465, T466–467, T468–469, T470, T471, T472–473, T474, T475a, SG18, SG19, SG20, SG21, SG24, SG25, SG26, SG27; Unit 8: T489j, T493a, T494, T494a, T496, T497, T499, T500–501, T502–503, T504–505, T506–507, T508, T509, T510–511, T512, T513, T513a, T549h, T550a, T550b, T551, T552–553, T554–555, T556, T557, T557a, T558, SG6, SG7, SG8, SG9, SG12, SG13, SG14, SG15

Reading, continued

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Strand	Code	Standards Text	Grade 4 Units 1–8 Standards Correlations
Informational Text			
Key Ideas and Details	CC.4.Rinf.1	(1) Refer to details and examples in a text when explaining what the texts says and when drawing inferences from the text.	Unit 1: T1i, TT4, T5, T5a, T6, T10, T12–13, T14–15, T16-17, T18–19, T21, T22–23, T24–25, T26a, T27, T28a, T28b, T29, T30, T31, T32, T59j, T60, T60a, T60b, SG14; Unit 2: T106, T107, T107a, T108, T112, T114–115, T116–117, T118–119, T120–121, T123, T124–125, T126–127, T128, T128, T1296, T1296, T1290, T130a, T130b, SG4, SG5, SG18, SG19, SG20, SG21, SG24, SG25, SG26, SG27; Unit 3: T199, T202–203, T205a, T205b, T205d, T205f, T205g, SG10, SG11; Unit 4: T223, T224–225, T226–227, T228–229, T230–231, T236, T236a, T237, T2370, T238, T238a, T238b, T245a, T245b, T245d, SG14, SG15; Unit 5: T305, T306–307, T308–309, T310, T311, T313a, T313b, T313c, T313d, T315a, T316, T318, T319, T321, T322–323, T324–325, T326–327, T330, T331, T332–333, T334–335, T336, T336a, T339, T340, T341, T342, T343, T345a, T345b, T345d, SG10, SG11, SG20, SG21, SG22, SG23, SG26, SG27; Unit 6: T380a, T380b, T381, T382, T383, T385d, T390, T391, T392, T393, T394–395, T396–397, T398–399, T400–401, T402, T403, T405, T405, T406, T407, T408, T409, T410a, T410b, T410c, T411, T412–413, T417a, T417b, T417f, T417g, T417h, SG18, SG19, SG20, SG21, SG24, SG25, SG26, SG27; Unit 7: T432, T433, T434–435, T436–437, T438, T439, T444a, T445, T446a, T446b, T446c, T447, T450, T451, T451a, T452, T453a, T453b, T462–463, T464–465, T466–467, T468–469, T480, T481, T481a, T482, SG10, SG11, SG14; Unit 8: T499, T500–501, T502–503, T504–505, T506–507, T516a, T516b, T516c, T518–519, T520–521, T522, T523, T525a, T525b, T525g, T527a, T528, T533, T534–535, T536–537, T548, T548, T549, T551, T552–553, T554–555, T556, T557, T559g
((,)	CC.4.Rinf.2	(2) Determine the main idea of a text and explain how it is supported by key details; summarize the text.	Unit 1: T5, T5a, T6, T14–15, T16–17, T18–19, T21, T22–23, T24–25, T26a, T27, T29, T30, T60, T60a, T60b, SG8, SG9 SG10, SG11, SG14, SG15; Unit 2: T107a, T108, T113, T116–117, T118–119, T120–121, T124–125, T126–127, T128a, SG16, SG17, SG20, SG21, SG27; Unit 3: T174, T175a, T176, T181, T182–183, T184–185, T186–187, T188–189, T190 T192–193, T194–195, T196, T196a, T197, T205a, T205b, T205d, T205d, T205g, SG20, SG21, SG27; Unit 4: SG9, SG15; Unit 5: T324–325, T326–327, T328–329, T330, T336a, T341, T342, T343, SG21, SG27; Unit 6: T390, T391, T392, T393, T394–395, T396–397, T398–399, T400–401, T402, T403, T404, T406, T408, SG18, SG19, SG20, SG21, SG22, SG23, SG27; Unit 7: T440, T441, T442, T453f, T453g, SG9, SG15; Unit 8: T525a, T525b, T538, SG16, SG17, SG21, SG26, SG27
	CC.4.Rinf.3	(3) Explain events, procedures, ideas, and concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in a text.	Unit 1: T1i; Unit 2: T105r, T129f, SG22, SG23; Unit 3: SG16, SG17; Unit 4: T213j; Unit 5: T306–307, T310, T311, T313d, T313f, T313g, T313h, T337o, T338a, T338b, T345a, T345d, T345f, T345g, SG26, SG27; Unit 6: T392, T393, T394–395, T396–397, T398–399, T400–401, T402, T403, T409h; Unit 7: T446a, T446b, T477j, SG14, SG22, SG23
Craft and Structure	CC.4.Rinf.4	(4) Determine the meaning of general academic and domain-specific words and phrases encountered in a text relevant to a grade 4 topic or subject area.	Unit 1: T4, T5, T5a, T6, T6a, T7, T36, T38a, T39, T40, T41, SG16, SG17; Unit 2: T74, T75, T76, T97q, T98, T98c, T99, T105c, T105e, T106, T107, T108, T108a, T109, SG10, SG11; Unit 3: T174, T175, T175a, T176, T176a, T177, T190, T191, T205d, T205e; Unit 4: T216, T217, T218a, T219, T237o, T238, T238c, T245a, T245b, T245c, T245e, T245h, T246, T247, T247a, T248a, T249, T250, T269q, T270a, T270c, T271, SG16, SG17; Unit 5: T284, T285, T285a, T286, T287, T314, T315, T316a, T317, T344; Unit 6: T354, T355, T355a, T356a, T357, T358, T386, T387, T388a, T389; Unit 7: T426, T427, T428a, T429, T453d, T453h, T454, T455, T456a, T458, SG4, SG5; Unit 8: T492, T493, T494a, T495, T496, T526, T527, T528a, T529, T549o, T550, T550c, T559a, T559b, T559c, T559d, T559f, T559h
	CC.4.Rinf.5	(5) Describe the overall structure (e.g chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in a text or part of a text.	Unit 1: T35a, T35b, T35d, T35f, T35g, SG4, SG5, SG22, SG23; Unit 2: T137a, T137b, T137d; Unit 4: T217, T217a, T223, T224–225, T226–227, T228–229, T230–231, T233, T234, T236a, SG8, SG14, SG20, SG22, SG23; Unit 5: T305, T306–307, T308–309, T310, T311, T315a, T316, T336a, T343a, T345, T345a, T345b, T345d, T345f, T345g, T345h, SG20; Unit 6: T383a, T387a, T388, SG17, SG20; Unit 7: T427a, SG8; Unit 8: T540–541, T546–T547, SG4, SG5, SG8, SG10, SG11
	CC.4.Rinf.6	(6) Compare and contrast a firsthand and secondhand account of the same event or topic; describe the difference in focus and the information provided.	Unit 6: SG4, SG5; Unit 7: T483a, T483b, T483f, T483g
Integration of Knowledge and Ideas	CC.4.Rinf.7	(7) Interpret information presented visually, orally or quantitatively (e.g. in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to understanding a print or digital text.	Unit 1: T1i, T2, T3, T27h, T59i, T59j; Unit 2: T72, T73,T113, T114–115, T116–117, T120–121, T122; Unit 3: T181, T182–183, T184–185, T186–187, T188–189, T190, T191, T198a, T198b, T200–201, T203a, T204a, SG22, SG23, SG26; Unit 4: T213i, T214, T215, T223, T224–225, T226–227, T232, T233, T234, T235, T236a, T237, T237h, T245r, SG4, SG5, SG10, SG11; Unit 5: T281j, T282, T283, T303i, T313r, T338c, T340, T341, T342, SG16, SG17; Unit 6: T351j, T380c, T382, T383, T385a, T385b, T385r, T390, T392, T394–395, T396–397, T398–399, T402, T415a, SG10, SG11; Unit 7: T432, T433, T434–435, T436–437, T438, T439, T441, T442, T443, SG16, SG17; Unit 8: T490, T491, SG22, SG23
	CC.4.Rinf.8	(8) Explain how an author uses reasons and evidence to support particular points in a text.	Unit 2: T137a, T137b, T137d, T137f, T137g, T137h; Unit 3: SG4, SG5; Unit 4: T238a, T238b, T240, T241, T242, T243a, T244, T245a, T245b, T245d, T245f, T245g, T245h; Unit 5: T313a, T313b; Unit 7: T448, T449, T453a, T453b, T453d, T453g, Unit 8: T516a, T516b
	CC.4.Rinf.9	(9) Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably.	Unit 2: T135a, T136; Unit 5: T303j, SG4, SG5; Unit 6: T385r, T409, T417f, T417g, T417h; Unit 7: T423o, T423p, T445a, T445b, T445h, T478b; Unit 8: T523a, T525d, T525g, T549a, T549b, T559f, T559g

Grade 4 Common Core Standards

Reading, continued

Strand	Code	Standards Text	Grade 4 Units 1–8 Standards Correlations
Range and Level of Text Complexity	CC.4.Rinf.10	(10) By the end of the year, read and comprehend informational texts, including history/social studies, science, and technical texts, at the high end of the grades 4-5 text complexity band proficiently, with scaffolding as needed at the high end of the range.	Unit 1: T1i, T7, T8, T11, T14—15, T16—17, T18—19, T27h, T27o, T28a, T28b, T29, T30, T31, T32, T33, T33a, T34, T34a, T40, T41, T59j, T60c, T61, T62, T63a, T64a, T65, SG4, SG5, SG6, SG7, SG8, SG9, SG10, SG11, SG12, SG13, SG14, SG15, SG16, SG17, SG22, SG23; Unit 2: T97j, T105r, T109, T110, T111, T129f, T130c, T131, SG4, SG5, SG10, SG11, SG16, SG17, SG18, SG19, SG20, SG21, SG22, SG23, SG24, SG25, SG26, SG27; Unit 3: T167j, T173r, T177, T178, T181, T182—183, T184—185, T186—187, T188—189, T191, T192—193, T194—195, T197h, SG4, SG5, SG10, SG11, SG16, SG17, SG18, SG19, SG20, SG21, SG22, SG23, SG24, SG25, SG26, SG27; Unit 4: T213j, T219, T220, T221, T223, T224—225, T226—227, T228—229, T230—231, T232, T233, T234, T235, T236, T236a, T237, T245r, SG4, SG5, SG7, SG8, SG9, SG10, SG11, SG12, SG13, SG14, SG15, SG16, SG17, SG22, SG23; Unit 5: T303j, T303q, T304, T305, T306—307, T308—309, T310, T311, T311a, T312, T312a, T313, T313r, T337h, SG4, SG5, SG10, SG11, SG16, SG17, SG18, SG19, SG20, SG21, SG22, SG23, SG24, SG25, SG26, SG27; Unit 6: T381, T382, T383, T385r, T409h, T410c, T411, T412—413, SG4, SG5, SG10, SG11, SG16, SG17, SG18, SG19, SG20, SG21, SG22, SG23, SG24, SG25, SG26, SG27; Unit 7: T423j, T428a, T429, T430, T431, T443a, T444, T444a, T445, T445h, T477j, SG4, SG5, SG6, SG7, SG8, SG9, SG10, SG11, SG12, SG13, SG14, SG15, SG16, SG17, SG22, SG23; Unit 8: T515j, T517, T518—519, T520—521, T522, T523, T525r, T530, T531, T533, T534—535, T536—537, T539, T540—541, T542—543, T544—545, T546—T547, T549h, SG4, SG5, SG10, SG11, SG16, SG17, SG18, SG19, SG20, SG21, SG22, SG23, SG24, SG25, SG26, SG27
Foundational Skills			
Phonics and Word Recognition	CC.4.Rfou.3	(3) Know and apply grade-level phonics and word analysis skills in decoding words.	Unit 1: T1i, T1j, T1k, T27h, T27j, T27j, T27o, T28, T28c, T35d, T35e, T35r, T35s, T59j, T59k, T59l; Unit 2: T71j, T71k, T97j, T97k, T105r, T105s, T129f, T129i, T129j, T129o, T130, T130c, T137c, T137e; Unit 3: T143j, T143k, T143l, T167j, T173r, T197h, T197j; Unit 4: T213j, T213k, T213l, T237h, T237i, T237j, T245r, T245r, T245s, T269j, T269k, T269l; Unit 5: T281j, T281k, T303j, T303k, T313r, T313s, T337h; Unit 6: T351j, T351k, T379j, T379k, T379l, T379q, T380, T380c, T381, T385c, T385s, T385t, T409i, T409i, T409o, T410, T410c, T414—415, T417c, T417e; Unit 7: T423j, T423k, T423l, T445h, T445i, T445j, T453r, T453s, T453t, T477j, T477k, T477l, T477q, T478, T478c, T483c, T483e; Unit 8: T489j, T489k, T515j, T515k, T525r, T525s, T549h, T549i, T549o, T550, T550c, T559e, T559e
	CC.4.Rfou.3.a	(a) Use combined knowledge of all letter-sounds correspondences, syllabication patterns, and morphology (e.g. roots and affixes) to read accurately unfamiliar multisyllabic words in context and out of context.	Unit 1: T1i, T1j, T27h, T27i, T27j, T27o, T28, T28c, T35c, T35c, T35r, T35s, T35t, T37a, T40, T59j, T59k, T59l; Unit 2: T71j, T71k, T97j, T97k, T105r, T105s, T129f, T129j, T129o, T130c, T137c, T137e; Unit 3: T143j, T143k, T167j, T167k, T167l, T173r, T173r, T173r, T197h, T197i, T205c; Unit 4: T213j, T213k, T213l, T237h, T237i, T237j, T245r, T245s, T245t, T269j, T269k, T269l; Unit 5: T281j, T281k, T281l, T303j, T303k, T313r, T313s, T337h; Unit 6: T351j, T351k, T379j, T379k, T379l, T379q, T380, T380c, T381, T385c, T385e, T385r, T385s, T385t, T409h, T409j, T409j, T409o, T410, T410c, T414–415, T417c, T417e; Unit 7: T423j, T423k, T423l, T445h, T445i, T445j, T453r, T453s, T453t, T477j, T477k, T477l, T477q, T478, T478c, T483c, T483e; Unit 8: T489j, T489k, T515j, T515k, T525r, T525s, T549h, T549i, T549o, T550, T550c, T559c, T559e
Fluency	CC.4.Rfou.4	(4) Read with sufficient accuracy and fluency to support comprehension.	Unit 1: T1i, T5a, T8, T14–15, T21, T27h, T28a, T29, T34, T35b, T35r, T37a, T40, T44–45, T53, T61, T64, T65b; Unit 2: T71j, T75a, T81, T82–83, T99, T104, T104a, T105a, T105b, T105r, T107a, T110, T129o, T130a, T131, T136, T137b; Unit 3: T147a, T154–155, T161, T169, T173r, T175a, T178, T182–183, T198a, T199, T203a, T205b; Unit 4: T213j, T217, T217a, T220, T223, T224–225, T232, T233, T234, T235, T236, T236a, T237, T238a, T239, T241, T243a, T245b, T245r, T247a, T250, T253, T254–255, T270a, T270b, T271, T273a, T275b; Unit 5: T281j, T285a, T288, T292, T297, T304a, T305, T312, T313b, T313r, T315a, T318, T322–323, T331, T338a, T339, T345b; Unit 6: T351j, T355a, T358, T361, T362–363, T364–365, T374–375, T376, T380a, T380b, T381, T384, T385b, T385r, T387a, T390, T393, T394–395, T405, T410a, T410b, T411, T416, T417b; Unit 7: T423j, T427a, T430, T434–435, T441, T446a, T447, T452, T453b, T455a, T455a, T458, T462–463, T471, T478a, T479, T482, T483b; Unit 8: T489j, T493a, T496, T500–501, T509, T516a, T517, T524, T525b, T525r, T527a, T530, T534–535, T539, T549o, T550, T550a, T551, T558, T559b
	CC.4.Rfou.4.a	(a) Read on-level text with purpose and understanding.	Unit 1: T14–15, T21, T29, T44–45, T53, T60a, T61; Unit 2: T81, T82–83, T84–85, T86–87, T88–89, T90, T91, T92–93, T94, T95, T98, T98a, T99, T100, T101, T102, T103, T112, T114–115, T116–117, T118–119, T120–121, T123, T124–125, T126–127, T131, T132–133, T134–135; Unit 3: T154–155, T161, T182–183, T191, T198a, T199; Unit 4: T223, T224–225, T226–227, T228–229, T230–231, T238c, T239, T240, T241, T253, T254–255, T260, T261, T262–263, T264–265, T266, T267, T270c, T271, T272, T273; Unit 5: T292, T297, T305, T322–323, T331, T339; Unit 6: T361, T364–365, T368–369, T374–375, T376, T381, T393, T394–395, T396–397, T398–399, T400–401, T402, T404, T405, T406, T410c, T411, T412–413, T414–415; Unit 7: T434–435, T441, T447, T462–463, T471, T479, T482; Unit 8: T500–501, T509, T517, T534–535, T539, T551
	CC.4.Rfou.4.b	(b) Read on-level prose and poetry orally with accuracy, appropriate rate, and expression on successive readings.	Unit 1: T1i, T14–15, T21, T26a, T35r, T44–45, T53, T59; Unit 2: T71j, T81, T82-83, T90, T91, T97, T105r, T112, T114–115, T129; Unit 3: T143j, T167, T171a, T173b, T182–183, T197; Unit 4: T213j, T236a, T245r, T269i, T268a, T269; Unit 5: T281j, T292, T297, T302a, T313r, T322–323, T331, T337; Unit 6: T351i, T362–363, T364–365, T368–369, T374–375, T376, T379, T385r, T393, T394–395, T405, T409; Unit 7: T423j, T434–435, T441, T445, T453r, T462–463, T471, T477; Unit 8: T489j, T500–501, T509, T515, T525r, T534–535, T539, T549
	CC.4.Rfou.4.c	(c) Use context to confirm or self-correct word recognition and understanding, rereading as necessary.	Unit 1: T1i, T35r, T59j; Unit 2: T71j, T97j, T105r, T129f; Unit 3: T143j, T167j, T173r, T173t, T197h; Unit 4: T213j, T237h, T245r, T269j; Unit 5: T281j, T303j, T337h; Unit 6: T351j, T379j, T385r, T409h; Unit 7: T423j, T445h, T453r, T477j; Unit 8: T489j, T515j, T525r, T549h

Writing

Strand	Code	Standards Text	Grade 4 Units 1–8 Standards Correlations
Text Types and Purposes	CC.4.W.1	(1) Write opinion pieces on topics or texts, supporting a point of view with reasons and information.	Unit 1: T35r, T58; Unit 2: T96, T97, T105d, T137d; Unit 3: T166, T171, T202–203; Unit 4: T237m, T237n, T238b, T245j, T245k, T281; Unit 5: T313q, T337m, T337n, T346, T347, T348, T349; Unit 7: T445g; Unit 8: T515i, T515o, T515p, T525i, T525j, T525k, T525l, T560, T561, T562, T563
	CC.4.W.1.a	(2) Introduce the topic or text clearly, state an opinion, and create an organizational structure in which related ideas are grouped to support the writer's purpose.	Unit 1: T35q; Unit 2: T137d; Unit 4: T237m, T237n, T245j, T245k; Unit 5: T337m, T337n, T346, T347, T348, T349; Unit 7: T445g; Unit 8: T525i, T525j, T525k, T525l, T560, T561
	CC.4.W.1.b	(b) Provide reasons that are supported by facts and details.	Unit 1: T35q; Unit 2: T96, T97, T105d, T137d; Unit 3: T171, T202—203; Unit 4: T237m, T237n, T245i, T245j, T245k; Unit 5: T346, T347, T348, T349; Unit 8: T515o, T515p, T525k, T525l, T560, T561, T562, T563
	CC.4.W.1.c	(c) Link opinions and reasons using words and phrases (e.g. for instance, in order to, in addition).	Unit 1: T35q; Unit 2: T137d; Unit 4: T237m, T237n, T245i, T245j, T245k; Unit 5: T346, T347, T348, T349; Unit 8: T515i, T525k, T525l, T560, T561, T562, T563
	CC.4.W.1.d	(d) Provide a concluding statement or section related to the opinion presented.	Unit 5: T337m, T337n, T347, T348; Unit 8: T562, T563
	CC.4.W.2	(2) Write informative/explanatory texts to examine a topic and convey ideas and information clearly.	Unit 1: T27g, T27m, T27n, T35, T35i, T35j, T35k, T35l, T35q, T35w, T35x, T59i, T66, T67, T68, T69; Unit 2: T71i, T105q, T129e, T139; Unit 3: T148, T176, T178, T179, T197m, T197n; Unit 4: T213i, T237g, T245q; Unit 5: T303i, T303j, T313i, T313j, T313k, T313l, T337g, T345; Unit 6: T379i; Unit 7: T423i, T423o, T423p, T445a, T445b, T453i, T453j, T453k, T453l; Unit 8: T525q, T549g
	(C.4.W.2.a	(a) Introduce a topic clearly and group related information together in paragraphs and sections; include formatting (e.g headings), illustrations, and multimedia when useful to aiding comprehension.	Unit 1: T59j; Unit 2: T129m, T129n, T138; Unit 3: T206–207, T208; Unit 4: T237g, T269i; Unit 5: T303o, T303p, T313j, T313k, T313l, T346, T347; Unit 7: T423o, T423p, T445a, T445b, T453j, T453k, T453l
	CC.4.W.2.b	(b) Develop the topic using facts, definitions, concrete details, quotations, or other information and examples related to the topic.	Unit 1: T35i, T35j, T35k, T35l, T35q, T35w, T35x, T66, T67, T68, T69; Unit 2: T138, T139, T140, T141; Unit 3: T197m, T197n, T208; Unit 4: T213i; Unit 5: T303o, T303p, T313i, T313j, T313q; Unit 6: T379i; Unit 7: T445a, T453j;
	CC.4.W.2.c	(c) Link ideas within categories of information using words or phrases (e.g. another, for example, also, because).	Unit 1: T35w, T35x; Unit 3: T143o, T143p
	CC.4.W.2.d	(d) Use precise language and domain-specific vocabulary to inform about or explain the topic.	Unit 1: T35r; Unit 2: T71j; Unit 4: T267a, T268, T268a, T269; Unit 8: T489o, T489p, T525q, T549h
	CC.4.W.2.e	(e) Provide a concluding statement or section related to the information or explanation offered.	Unit 5: T303i, T313q, T313r; Unit 7: T445b
	CC.4.W.3	(3) Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.	Unit 1: T27g, T59a, T59b, T59c, T59d; Unit 2: T71i, T71o, T71p, T97i; Unit 3: T143i, T167a, T167b, T167c, T167d, T196; Unit 5: T337i, T337j; Unit 6: T351i, T385q; Unit 7: T423i, T445g, T477a, T477b, T477c, T477d, T477i, T477o, T477p, T484, T485, T486, T487; Unit 8: T489j, T515a, T515b, T515c, T515d
	CC.4.W.3.a	(a) Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.	Unit 1: T35w, T35x; Unit 2: T71i, T97i, T97o, T97p, T105i, T105j, T105k, T105l; Unit 4: T245w, T245x, T269a, T269c; Unit 5: T337i; Unit 6: T351i, T385q; Unit 7: T423i, T445g, T477a, T477b, T477c
	CC.4.W.3.b	(b) Use dialogue and description to develop experiences and events or show the responses of characters to situations.	Unit 2: T105i, T105j, T105k, T105l; Unit 5: T281o, T281p, T303b, T303c, T303d; Unit 6: T385q; Unit 7: T453q, T477i
	CC.4.W.3.c	(c) Use a variety of transitional words and phrases to manage the sequence of events.	Unit 2: T105i, T105j, T105k, T105l
	CC.4.W.3.d	(d) Use concrete words and phrases and sensory details to convey experiences and events precisely.	Unit 3: T167o, T167p, T173i, T173j, T173k, T173l; Unit 4: T276, T277, T278, T279; Unit 8: T515a, T515b, T515c, T515d
	CC.4.W.3.e	(e) Provide a conclusion that follows from the narrated experiences or events.	Unit 7: T453w, T453x, T477a, T477b, T477c;
Production and Distribution of Writing	CC.4.W.4	(4) Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1-3 above.)	Unit 2: T71o, T71p, T97a, T97b; Unit 3: T167a, T167b, T167c, T167d, T197g; Unit 5: T281i, T303i, T313q; Unit 6: T385q, T409g; Unit 7: T477j; Unit 8: T489i, T515i, T525q
	CC.4.W.5	(5) With guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, and editing. (Editing for conventions should demonstrate command of Language standards 1-3 up to and including grade 3 on pages 28 and 29.)	Unit 1: T1m, T27l, T35i, T35y, T35y, T59a, T59b, T59c, T59d, T59n, T66, T67, T68, T69; Unit 2: T71i, T71m, T71n, T97a, T97b, T97c, T97d, T97n, T105v, T129l, T138, T139, T140; Unit 3: T143p, T167a, T167b, T167c, T167d, T173i, T173j, T173k, T173l, T206—207, T208, T208a, T209, T210, T211; Unit 4: T213m, T213n, T237k, T237l, T245i, T245j, T245k, T245l, T245v, T269a, T269b, T269c, T269n, T276, T277, T278, T279; Unit 5: T281n, T303a, T303b, T303c, T303d, T303n, T313i, T313j, T313k, T313l, T313v, T337l, T346, T347, T348, T349; Unit 6: T351n, T379a, T379b, T379c, T379d, T379n, T385i, T385j, T385k, T385l, T385v, T409l, T418, T419, T420, T421; Unit 7: T423n, T445l, T453i, T453j, T453k, T453l, T453v, T477a, T477b, T477c, T477d, T477n, T484, T485, T486, T487; Unit 8: T489n, T525v, T549l, T515a, T515b, T515c, T515d, T525i, T525j, T525k, T525l, T560, T561, T562, T563

Grade 4 Common Core Standards

Writing, continued

Strand	Code	Standards Text	Grade 4 Units 1–8 Standards Correlations
Production and Distribution of Writing	CC.4.W.6	(6) With some guidance and support from adults, use technology, including the Internet, to produce and publish writing as well as to interact and collaborate with others; demonstrate sufficient command of keyboarding skills to type a minimum of one page in a single sitting.	Unit 2: T129e; Unit 3: T143j, T167a, T167b, T167c, T167d, T173r; Unit 6: T379o, T379p, T385j, T385k, T385l; Unit 8: T525j, T525k, T525l
Research to Build Knowledge	CC.4.W.7	(7) Conduct short research projects that build knowledge through investigation of different aspects of a topic.	Unit 1: T1i, T1n, T1o, T27a, T27b, T27h, T35q, T59j; Unit 2: T71j, T97j, T97j, T105r, T105w, T105x, T129a, T129e, T129f; Unit 3: T173w, T173x, T197a, T197b, T208, T208a; Unit 4: T213i, T213o, T213p, T237a, T237b, T237g, T237h; Unit 5: T281j, T303j, T313q, T313r, T337a, T337b, T337g, T337h; Unit 6: T351j, T379j, T409a; Unit 7: T423j, T453r, T477j, T445a; Unit 8: T489j, T515j, T525r, T525w, T525x, T549a, T549b
	CC.4.W.8	(8) Recall relevant information from experience or gather relevant information from print and digital sources; take notes and categorize evidence, and provide a list of sources.	Unit 1: T1h, T1i, T27h, T35q; Unit 2: T71i, T71j, T97i, T97j, T105r, T129a, T129b; Unit 3: T173w, T173x, T197a, T197b, T197h, T208a, T209; Unit 4: T213j, T213o, T213p, T237a, T237b; Unit 5: T313r, T313w, T313x, T337a, T337b, T337g, T337h; Unit 6: T385q, T385w, T385x, T409a, T409b, T409g, T409h; Unit 7: T423o, T423p, T445a, T445b, T453r; Unit 8: T489i, T515j, T525w, T525x, T549a, T549b
	CC.4.W.9	(9) Draw evidence from literary or informational texts to support analysis, reflection, and research.	Unit 1: T6, T33, T35r, T38, T60b, T60c; Unit 2: T97j, T98a, T98b, T98c, T99, T126–127, T130b, T130, T131; Unit 3: T167j, T173r, T197h; Unit 4: T213o, T213p, T218, T237a, T237b, T243, T245a, T245d, T248, T273 T275a, T275d; Unit 5: T286, T304b, T311, T313w, T313x, T316, T337h, T338b, T343; Unit 6: T356, T381, T382, T385d, T385w, T385x, T393, T394–395, T396–397, T398–399, T400–401, T402, T403, T409a, T409b, T409m, T409n, T409o, T410a, T410b, T410c, T411, T414–415, T418, T419, T420; Unit 7: T439, T443, T446b, T481, T483d; Unit 8: T506–507, T523, T525d, T525g, T528, T536–537, T549m, T549n, T550b, T557, T559d, T559g
	CC.4.W.9.a	(a) Apply grade 4 reading standards to literature (e.g. "Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text [e.g. a character's thoughts, words, or actions.]	Unit 1: T50–51; Unit 2: T75a, T76, T80, T81, T82–83, T84–85, T86–87, T88–89, T105f, T105g, T105h; Unit 4: T275c, T275d; Unit 5: T284, T286, T286a, T288, T289, T290, T295, T301b, T302; Unit 6: T356, T358, T359, T372, T374–375, T377a, T385d, T385g; Unit 8: T494
	CC.4.W.9.b	(b) Apply grade 4 reading standards to informational texts (e.g. "Explain how an author uses reasons and evidence to support particular points in a text").	Unit 1: T6, T9, T35d, T35g, T38, T60b, T63, T65c, T65d, T65h; Unit 2: T137f, T137g, T137h; Unit 3: T174, T176, T180, T188–189, T205e, T205g; Unit 4: T216, T218, T235, T245a, T245b, T245d, T248, T275e, T275g, T275h; Unit 5: T314, T316, T316a, T318, T319, T320, T328–329; Unit 6: T390, T391, T396–397, T405, T406, T407, T408, T408a, T409, T417g; Unit 7: T439, T446b, T451, T453d, T478b, T483g; Unit 8: T525d, T525g, T536–537
Range of Writing	CC.4.W.10	(10) Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	Unit 1: T4, T6, T6a, T9, T10, T18–19, T20, T24–25, T25a, T27, T35i, T35j, T35k, T35l, T36, T38, T38a, T41, T42, T50–51, T52, T57a, T66, T67, T68, T69, T70, T71, SG8, SG9, SG14, SG15, SG20, SG21, SG26, SG27; Unit 2: T74, T76, T80, T84–85, T97b, T97c, T98c, T103, T106, T108, T108a, T110, T111, T112, T120–121, T127a, T128, T137d, T139, T140, T142, T143, SG8, SG9, SG14, SG15, SG20, SG21, SG26, SG27; Unit 3: T143i, T146, T148, T152, T159, T160, T165a, T167b, T167c, T167d, T167c, T167b, T167c, T167b, T167c, T167d, T167b, T167a, T168b, T173c, T173d, T173e, T173g, T173j, T173k, T173l, T174, T176, T176a, T178, T179, T180, T188–189, T190, T194–195, T197m, T197n, T205c, T205d, T205e, T205g, T206–207, T208, T208a, T209, T210, T211, T212, T213, SG8, SG9, SG14, SG15, SG20, SG21, SG26, SG27; Unit 4: T216, T218, T218a, T220, T221, T222, T230–231, T235a, T236, T245e, T245e, T245g, T245j, T245k, T246, T248, T248a, T250, T251, T252, T259, T267a, T268, T269b, T269c, T269i, T269q, T270b, T277, T278, T279, T280, T281, SG8, SG9, SG14, SG15, SG20, SG21, SG26, SG27; Unit 5: T284, T286, T286a, T288, T289, T290, T295, T296, T301a, T301b, T302, T303a, T303b, T303c, T303d, T313c, T313d, T313e, T313g, T314, T316, T316a, T318, T319, T320, T328–329, T30, T334–335, T335a, T336, T343a, T345, T345c, T345d, T345e, T345g, T346, T347, T348, T349, T350, T351, SG8, SG9, SG14, SG15, SG20, SG21, SG20, SG21, SG26, SG27; Unit 6: T351i, T354, T356, T347, T348, T349, T377a, T377b, T378, T379a, T379b, T379c, T379d, T379d, T379d, T379d, T379d, T379d, T379d, T379d, T378d, T440, T441, T442, T443, T443, T443, T443, T453i, T453e, T453g, T453i, T453k, T456, T456, T456a, T458, T459, T440, T441, T442, T443, T443, T443a, T444, T453i, T453e, T453g, T453i, T453k, T453i, T456, T456a, T458, T459, T440, T441, T442, T443, T443, T443a, T444, T453i, T453e, T453g, T453k, T453i, T454, T456, T456a, T458, T459, T440, T441, T442, T443, T443, T443a, T444, T453i, T453e, T453g, T457b, T476, T477d, T484, T486, T486, T487, T488, T489, SG8, SG9, SG14, SG15, SG20, SG21, SG26, SG27; Uni

Speaking and Listening

Strond	Codo	Standards Toyt	Crada Alluita 1 9 Standarda Carrolations
Strand	Code	Standards Text	Grade 4 Units 1–8 Standards Correlations
Comprehension and Collaboration	CC.4.SL.1	(1) Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher- led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.	Unit 1: T6a, T7, T8, T9, T10, T11, T12–13, T14–15, T16–17, T18–19, T20, T22–23, T24–25, T26a, T27, T57b, T58a, T59, T59j; Unit 2: T80, T81, T82–83, T84–85, T86–87, T88–89, T90, T92–93, T95a, T96, T96a, T97, T105q, T137d, T137h, T142, T143; Unit 3: T152, T153, T154–155, T156–157, T158, T166a, T167, T167q, T168a, T168b, T171a, T172, T173, T176a, T177, T180, T181, T182–183, T184–185, T186–187, T188–189, T190, T196, T205f, T205g, T205h; Unit 4: T213i, T245r; Unit 5: T313r; Unit 6: T379j, T385r, T409g; Unit 7: T423i, T423j, T477i, T483h; Unit 8: T515i, T525r, T549g
CC.	CC.4.SL.1.a	(a) Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.	Unit 1: T6a, T8, T14—15, T18—19, T20, T24—25, T25a, T26, T27, T35e, T35g, T35h, T57b, T58a, T59, T65e, T65h, T70, T71, S66, S67, S612, S613, S618, S619, S624, S625; Unit 2: T97i, T105f, T105g, T105h, T130a, T137f, T137h, S66, S67, S68, S69, S612, S613, S614, S615, S618, S619, S620, S621, S624, S625, S626, S627; Unit 3: T144, T145, T160, T165, T166, T166a, T167, T173e, T173f, T173h, T212, T213, S67, S67, S612, S613, S618, S619, S624, S625; Unit 4: T213i, T245f, T245g, T245h, T245r, T275e, T275f, T275g, T275g, T280, T281, S66, S67, S612, S613, S618, S619, S624, S625; Unit 5: T313f, T313g, T313h, T345e, T345g, T345h, T350, T351, S66, S67, S612, S613, S618, S619, S624, S625; Unit 6: T352, T353, T385h, T417h, T422, T423, S66, S67, S612, S613, S614, S615, S618, S619, S624, S625; Unit 6: T352, T355, T355h, T477h, T422, T423, S66, S67, S612, S613, S614, S615, S618, S619, S624, S625; Unit 6: T555e, T555h, T564, T565, S66, S67, S612, S613, S618, S619, S624, S625; Unit 8: T525e, T525r, T559h, T564, T565, S66, S67, S612, S613, S618, S619, S624, S625
	CC.4.SL.1.b	(b) Follow agreed-upon rules for discussions and carry out assigned roles.	Unit 2: T106, T107, T107a, T108a, T109, T110, T112, T128, T143; Unit 3: T152, T153, T154–155, T156–157, T158, T167q, T168a, T168b, T171a, T172, T173b, T197o; Unit 4: T216, T217, T218a, T219, T232, T233, T234, T235, T235a, T236, T236a, T237, T237h; Unit 6: T351i, T385r
	CC.4.SL.1.c	(c) Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.	Unit 1: T1h, T36, T37, T37a, T38a, T41, T59i; Unit 2: T90, T92–93, T95a, T96, T96a, T97, T105q, T106, T107, T107a, T129b, T137h, T143; Unit 3: T165b, T166, T166a, T167, T169, T170; Unit 7: T423i, T445g, T454, T455, T456
	CC.4.SL.1.d	(d) Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.	Unit 1: T27h, T27o,T28, T28a, T28b, T59q, T60, T60a, T60b; Unit 2: T97q, T98a, T98b, T130a, T130b; Unit 3: T173i, T173j, T173k, T176a, T177, T178, T179, T180, T182—183, T184—185; Unit 4: T248a, T249, T250, T251, T252, T253, T254—255, T256—257, T258, T259, T260, T261, T262—263, T264—265, T267a, T268, T268a, T269, T269q, T270a, T270b, T270c, T271, T272, T273, T273a, T274, T274a, T275, T275a, T275e, T275f, T275g, T275g; Unit 5: T303q, T304, T304a, T304b, T315, T315a, T316, T316a, T318, T319, T3370, T338a, T338b; Unit 6: T380a, T380b, T409g, T409o, T410a, T410b; Unit 7: T445h, T445o, T446a, T446b, T453q, T477q; Unit 8: T515q, T526, T527, T528a, T530, T531, T549g, T5490, T550a, T550b
	CC.4.SL.2	(2) Paraphrase portions of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.	Unit 1: T2, T3, T59j; Unit 2: T71i, T90, T97i, T105q, T107a, T129e, SG21, SG27; Unit 3: T144, T145, T174, T175a, T181, T182–183, T184–185, T186–187, T188–189, SG21; Unit 4: T214, T232, T233, T234, T235, T237a, T237b, T237g, T245q; Unit 5: T281i, T313q, T337g; Unit 6: T380b, T385q, T409a, T409b, T409g; Unit 7: T424, T425, T432, T433, T434–435, T436–437, T438, T439, T445g, T453q, T477i; Unit 8: T515i, T525q
	CC.4.SL.3	(3) Identify the reasons and evidence a speaker provides to support particular points.	Unit 4: T245i, T245j, T245k; Unit 5: T337a, T337b
Presentation of Knowledge and Ideas	CC.4.SL.4	(4) Report on a topic or text, tell a story, or recount an experience in an organized manner, using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.	Unit 1: T27a, T27b, T27g, T33a, T34, T34a, T35, T35d, T37a, T38, T58a, T59i, T63a, T64, T65, SG20, SG21; Unit 2: T97i, T103a, T014, T105, T105a, T105b, T105d, T105r, T129e, T135a, T136, T137, T142, T143, SG14; Unit 3: T171a, T172, T173q, T197a, T197b, T203a, T204, T205e; Unit 4: T213i, T237g, T237h, T243a, T244, T245, T269i, T269j, T273a, T274, T274a, T275, T281; Unit 5: T281i, T281j, T285, T286a, T288, T289, T303i, T303j, T311a, T312, T337a, T337b, T337g, T343a, T344, T345; Unit 6: T351j, T379i, T383a, T384, T385r, T388a, T408, T409g, T409h, T416; Unit 7: T445h, T451a, T452, T453r, T456a, T458, T481a, T482, SG20; Unit 8: T494a, T496, T497, T524, T525, T525r, T549a, T549b, T549h, T557a, T558
	CC.4.SL.5	(5) Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes.	Unit 3: T205e; Unit 4: T281; Unit 5: T303i; Unit 6: T351j, T379j; Unit 7: T445a, T445b, T477j; Unit 8: T515j
	CC.4.SL.6	(6) Differentiate between contexts that call for formal English (e.g. presenting ideas) and situations where informal discourse is appropriate (e.g. small-group discussion); use formal English when appropriate to task and situation. (See grade 4 Language standards 1 and 3 for specific expectations.)	Unit 1: T27g, T59i, T59o, T59p, T66, T67, T68, T69; Unit 2: T108a, T109, T110, T128, T129; Unit 7: T428a, T456a

Grade 4 Common Core Standards

Language

Strand	Code	Standards Text	Grade 4 Units 1–8 Standards Correlations
Conventions of Standard English		(1) Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	Unit 1: T1l, T1m, T34a, T35, T35a, T35b, T35c, T35d, T35u, T35v, T59d, T59i, T59m, T59n, T64a, T65, T65h, T66, T67, T68, T69; Unit 2: T71m, T71n, T97c, T97d, T97n, T104a, T105, T105c, T105u, T105v, T107, T136a, T137; Unit 3: T143k, T143m, T143n, T143o, T143p, T167a, T167b, T167c, T167d, T167m, T167n, T172a, T173, T173i, T173j, T173k, T173l, T173u, T173v, T197l, T204a, T205, T210, T211; Unit 4: T213m, T213n, T237k, T237l, T244a, T245, T245l, T245q, T245u, T245v, T269d, T269m, T269n, T274a, T275, T276, T277, T278, T279; Unit 5: T281m, T281n, T285, T286, T303a, T303d, T303m, T303n, T312a, T313l, T313l, T313r, T313u, T313t, T337k, T337l, T344a, T344a, T345, T348, T349; Unit 6: T351m, T351n, T351o, T351p, T354, T355, T355a, T379c, T379d, T379m, T379n, T384a, T385, T385l, T385u, T385v, T409k, T409l, T416a, T417, T420; Unit 7: T423m, T423n, T445k, T445l, T445m, T445n, T452a, T453, T453k, T453l, T453u, T453v, T477c, T477d, T477m, T477n, T482a, T483, T486; Unit 8: T489m, T489n, T515d, T515m, T515n, T524a, T525, T525e, T525h, T525u, T525v, T549k, T549l, T558a, T559, T562, T563
	CC.4.L.1.a	(a) Use relative pronouns (who, whose, whom, which, that) and relative adverbs (where, when, why).	Unit 1: T35u, T35v, T59d, T59m, T59n, T66, T67, T68, T69; Unit 7: T453u, T453v, T477d
	CC.4.L.1.b	(b) Form and use the progressive (e.g. I was walking; I am walking; I will be walking) verb tenses.	Unit 4: T213n, T237k, T237l; Unit 8: T515m, T515n, T525k, T525l, T525u, T525v, T549k, T549l, T562, T563
	CC.4.L.1.c	(c) Use modal auxiliaries (e.g. can, may, must) to convey various conditions.	Unit 4: T269m, T269n; Unit 8: T525u, T525v
	CC.4.L.1.d	(d) Order adjectives within sentences according to conventional patterns (e.g. a small red bag rather than a red small bag).	Unit 5: T303m, T303n, T313l, T337k, T337l
	CC.4.L.1.e	(e) Form and use prepositional phrases.	Unit 6: T351i; Unit 7: T486
	CC.4.L.1.f	(f) Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.	Unit 1: T1l, T1m, T27k, T27l, T34a, T35, T35l, T59m, T59n, T66, T67, T68, T69; Unit 2: T105u, T105v, T129k, T129l, T139, T140; Unit 6: T379a, T379b, T379c, T379d; Unit 7: T445m, T445n, T453k, T453l
	CC.4.L.1.g	(g) Correctly use frequently confused words (e.g. to, too, two; there, their).	Unit 1: T1j, T27i, T59l; Unit 2: T71k, T71l, T97k, T105t, T129j; Unit 3: T143k, T167l, T173t; Unit 4: T213k, T237i, T245s, T269k; Unit 5: T281l, T303l, T313t, T337j; Unit 6: T351l, T379k, T385s, T409j; Unit 7: T423l, T445j, T453t, T477l; Unit 8: T489l, T515k, T525s, T549i
	CC.4.L.2	(2) Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	Unit 1: T1j, T1k, T1m, T27i, T27j, T27l, T34a, T35, T35l, T35s, T35t, T59i, T59k, T59l; Unit 2: T71l, T97c, T97d, T97l, T97n, T105t, T105t, T105t, T105v, T129j, T129k, T129l, T139, T140; Unit 3: T143k, T143l, T143m, T143n, T167a, T167b, T167c, T167d, T167l, T167m, T167n, T173i, T173i, T173k, T173s, T173t, T197i, T197j; Unit 4: T213l, T237i, T237j, T245s, T245t, T245u, T245v, T269k, T269l; Unit 5: T281n, T303d, T303l, T313t, T337j; Unit 6: T351k, T351l, T379k, T379l, T385t, T409j; Unit 7: T423l, T445j, T453q, T453t, T461, T464—465, T468—469, T477i, T477l; Unit 8: T489k, T489l, T489m, T489n, T515d, T515l, T525l, T525t, T549i, T549j
	CC.4.L.2.a	(a) Use correct capitalization.	Unit 1: T1m, T34a, T35, T35l, T59i; Unit 2: T105u, T105v, T129k, T129l
	CC.4.L.2.b	(b) Use commas and quotation marks to mark direct speech and quotations from a text.	Unit 2: T97m, T97n; Unit 5: T281o, T281p, T303d; Unit 6: T409a, T409b; Unit 8: T515k, T515l
	CC.4.L.2.c	(c) Use comma before a coordinating conjunction in a compound sentence.	Unit 2: T105u, T105v, T129k, T129l, T139, T140
	CC.4.L.2.d	(d) Spell grade-appropriate words correctly, consulting references as needed.	Unit 1: T1k, T27i, T27j, T35s, T35t, T59l; Unit 2: T71k, T71l, T97k, T97l, T105t, T129j; Unit 3: 143k, T143l, T167k, T167l, T173s, T173t, T197i, T197j; Unit 4: T213l, T237j, T245t, T269k, T269l; Unit 5: T281k, T281l, T281n, T303d, T303k, T303l, T313t, T337i, T337j; Unit 6: T351l, T379k, T379l, T385s, T385t, T409i, T409j; Unit 7: T423k, T423l, T445j, T453s, T477k, T477l; Unit 8: T489l, T515k, T525s, T525t, T549i, T549j
Knowledge of Language	CC.4.L.3	(3) Use knowledge of language and its conventions when writing, speaking, reading, or listening.	Unit 1: T1l, T1m, T27k, T27l, T34a, T35, T35l, T35u, T35v, T59d, T59m, T59n, T63a, T64, T64a, T65, T66, T67, T68, T69; Unit 2: T71m, T71n, T97c, T97d, T97m, T97n, T104a, T105, T105u, T105v, T136a, T137; Unit 3: T143i, T143j, T143m, T143n, T167a, T167b, T167c, T167d, T167i, T167n, T173i, T173i, T173i, T173k, T173l, T173q, T173u, T173v, T190, T191, T192–193, T194–195, T197k, T197l, T204a, T205, T210, T211; Unit 4: T213m, T213n, T237k, T237l, T244a, T245, T245l, T245u, T245v, T248a, T269d, T269m, T269n, T274a, T275, T276, T277, T278, T279; Unit 5: T281m, T281n, T281o, T281p, T303c, T303d, T303m, T303n, T311a, T312, T312a, T313, T313l, T313u, T313t, T344, T344a, T345, T348, T349; Unit 6: T351m, T351n, T379a, T379c, T379d, T379m, T379n, T384a, T385, T385l, T385u, T385v, T409k, T409l, T409m, T409n, T415a, T416a, T417, T420; Unit 7: T423m, T423n, T445k, T445l, T452a, T453, T453k, T453l, T461, T464–465, T468–469, T477c, T477d, T477m, T477n, T482a, T482, T483, T486, SG24, SG25, SG26, SG27; Unit 8: T515d, T524a, T525, T525u, T525v, T549k, T549l, T558a, T559, T562, T563
	CC.4.L.3.a	(a) Choose words and phrases to convey ideas precisely.	Unit 2: T139, T140; Unit 4: T252, T254–255, T256–257, T267, T267a, T268, T268a, T269; Unit 8: T528a, T529
	CC.4.L.3.b	(b) Choose punctuation for effect.*	Unit 1: T59i; Unit 2: T97m, T97n, T139, T140
	CC.4.L.3.c	(c) Differentiate between contexts that call for formal English (e.g. presenting ideas) and situations where informal discourse is appropriate (e.g. small group discussion).	Unit 1: T27g, T59o, T59p, T66, T67, T68, T69

Language, continued

Strand	Code	Standards Text	Grade 4 Units 1–8 Standards Correlations
Vocabulary Acquisition and Use	CC.4.L.4	(4) Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.	Unit 1: T270, T28, T28c, T35c, T35e, T35f, T35g, T59q, T60c, T61, T65c, T65d; Unit 2: T97q, T98, T98c, T99, T105c, T105e, T129f, T129o, T130, T130a, T130c, T131, T137a, T137b, T137c, T137e, T137f; Unit 3: T197j, T197o, T198, T198c, T199, T205c, T205d; Unit 4: T237h, T237o, T238, T238c, T240, T245a, T245c T245e, T245h, T245q, T269q, T270c, T275c, T275d, T275e; Unit 5: T303q, T304, T304a, T304b, T305, T306–307, T308–309, T310, T311, T313a, T313b, T313c, T313d, T313f, T313g, T313h, T337o, T338, T338c, T339, T340, T345a, T345c, T345d, T345e, T345g; Unit 6: T379q, T380, T380c, T381, T385c, T385e, T409o, T410, T410c, T412–413, T417c, T417e; Unit 7: T445o, T446, T446c, T453c, T453e, T477q, T478, T478c, T479, T481a, T482a, T483, T483c, T483e; Unit 8: T515q, T516c, T516c, T525c, T549o, T550c, T559a, T559b, T559c, T559d, T559e
	CC.4.L.4.a	(a) Use context (e.g. definitions, examples, or restatements in text) as a clue to the meaning of a word or phrase.	Unit 2: T98c, T105c, T105e; Unit 4: T237o, T238, T238c, T245c, T245e, T269q, T270c, T275e
	CC.4.L.4.b	(b) Use common, grade-appropriate Greek and Latin affixes and roots as clues to the meaning of a word (e.g. telegraph, photograph, autograph)	Unit 3: T167q, T168, T168c, T173c, T173e; Unit 6: T379q, T380, T380c, T381, T385c, T385e, T409o, T410, T410c, T414—415, T417c, T417e
	CC.4.L.4.c	(c) Consult reference materials (e.g. dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation and determine or clarify the precise meaning of key words and phrases.	Unit 1: T1k, T27o, T28, T35c, T35e; Unit 2: T97l, T129j, T130, T130c, T137a, T137b, T137c, T137e; Unit 3: T143l, T173c, T173e, T197j; Unit 4: T269l; Unit 6: T379l, T409i; Unit 7: T453t; Unit 8: T489l
	CC.4.L.5	(5) Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	Unit 2: T95a; Unit 3: T162–163, T164, T165a, T168a, T168b, T170, T171a, T173r, T197i, T197o, T198, T198c, T205c, SG14; Unit 4: T252, T253, T254–255, T256–257, T259, T260, T261, T262–263, T264–265, T267, T269o, T269p, T269q, T270a, T270b, T271, T272, T273, T273a, T275f, T276, T277, T278, T279; Unit 5: T281i, T303q, T304, T304b, T305, T306–307, T310, T313a, T313b, T313c, T313d, T313e, T313f, T313g, T313h, T337o, T338, T338c, T345c, T345e; Unit 6: T379q, T380, T380c, T381, T385c, T385e, T409o, T410, T410c, T414–415, T417e; Unit 7: T423i; Unit 8: T513, T513a, T549o, T550, T550c, T559a, T559b, T559c, T559d, T559e
	CC.4.L.5.a	(a) Explain the meaning of simple similes and metaphors (e.g. as pretty as a picture) in context.	Unit 3: T168a, T168b, T170, T171a; Unit 4: T270a, T270b, T272, T273, T273a
	CC.4.L.5.b	(b) Recognize and explain the meaning of common idioms, adages, and proverbs.	Unit 1: T44–45, T59q, T60, T60c, T61, T65c; Unit 8: T515q, T516, T516c, T525c, T559a, T559b, T559d
	CC.4.L.5.c	(c) Demonstrate understanding of words by relating them to their opposites (antonyms) and to words with similar but not identical meanings (synonyms).	Unit 3: T143I; Unit 4: SG26; Unit 5: T303q, T304, T304b, T304b, T305, T306–307, T310, T313c, T313e, T337o, T338, T338c, T345c, T345e; Unit 8: T525r
	CC.4.L.6	(6) Acquire and use accurately grade appropriate conversational, general academic, and domain-specific words and phrases, including those that signal precise actions, emotions, or states of being (e.g. quizzed, whined, stammered) and that are basic to a particular topic (e.g. wildlife, conservation, and endangered when discussing animal preservation).	Unit1: T1h, T4, T5, T5a, T6, T6a, T7, T8, T9, T10, T11, T12—13, T16—17, T18—19, T20, T21, T25a, T26, T27, T27g, T33a, T34, T35, T35q, T36, T36, T37, T37a, T38, T38a, T40, T41, T42, T43, T50—51, T52, T53, T56, T57a, T57b, T58, T58a, T59, T59i, T63a, T64, S64, S65, S66, S67, S68, S69, S610, S611, S612, S613, S614, S615, S616, S617, S618, S619, S620, S621, S622, S623, S64, S625, S66, S67, S68, S69, S610, S611, S612, S613, S614, S615, S616, S617, S618, S619, S620, S621, S622, S623, S64, S625, S626, S627; Unit 2: T71, T174, T75, T75a, T76, T80, T81, T82—83, T88—89, T90, T95b, T96, T97i, T103a, T105, T105q, T106, T107, T108, T108a, T109, T112, T122, T127a, T128, T128a, T129e, T135a, T136, S65, S66, S67, S68, S69, S610, S611, S612, S613, S614, S615, S617, S618, S619, S620, S621, S623, S624, S625, S626, S627; Unit 3: T143i, T146, T147, T147a, T148, T148a, T149, T151, T152, T153, T158, T159, T160, T161, T162—163, T164, T165a, T165a, T166a, T167, T167i, T172a, T172, T173, T173q, T174, T175, T175a, T176, T176a, T177, T178, T179, T180, T181, T182—183, T184—185, T186—187, T188—189, T190, T191, T192—193, T194—195, T195a, T196, T196a, T197, T197g, T203a, T204, T205, S64, S65, S66, S67, S68, S69, S610, S611, S611, S612, S613, S614, S615, S616, S617, S618, S619, S620, S621, S622, S623, S624, S625, S626, S627; Unit 4: T213i, T216, T217, T218a, T219, T222, T223, T224—225, T226—227, T228—229, T232, T233, T234, T235, T235a, T236, T236a, T237, T237g, T243a, T245, T245q, T246, T247, T247a, T248a, T249, T250, T252, T253, T256—257, T259, T260, T261, T264—265, T267a, T269, T269, T2690, T2690, T2690, T2700, T271, T272, T273a, S64, S65, S66, S67, S68, S69, S610, S611, S612, S613, S614, S615, S618, S619, S619, S620, S621, S622, S623, S624, S625, S626, S67, S68, S69, S610, S611, S612, S613, S614, S615, S618, S619, S620, S621, S622, S623, S624, S625, S626, S67, S68, S69, S610, S611, S612, S613, S614, S615, S616, S617, S618, S619, S620, S621, S622, S623, S624, S625, S626, S67, S68, S69, S610, S611, S612, S618, S619, S629, S620, S621, S622, S6

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Family newsletters

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