FOSTERING STUDENTS' READING COMPREHENSION THROUGH BUILDING LANGUAGE AND KNOWLEDGE IN K-3 CLASSROOMS

Sonia Cabell, PhD Florida Center for Reading Research Florida State University

AGENDA FOR TODAY

 Introduction: How Reading Aloud Helps Students Learn

AGEND.

- Building Language
- Building Knowledge
- Putting it All Together:

Core Knowledge Language Arts Program

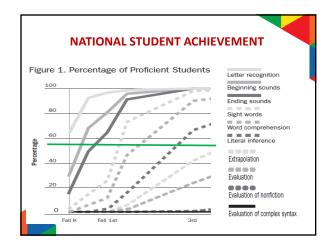
OPENING ACTIVITY

- Write down five books (or texts) that you read aloud to your students.
- Share with your neighbors.

INTRODUCTION: HOW READING ALOUD HELPS STUDENTS LEARN

WHAT IS READING?

 $R_{\text{eading}} = D_{\text{ecoding}} \times C_{\text{omprehension}}$



WHY IS READING ALOUD IMPORTANT FOR STUDENT LEARNING?

WHY IS READING ALOUD IMPORTANT FOR STUDENT LEARNING?

- Builds vocabulary skills
- Builds listening comprehension
- Builds knowledge

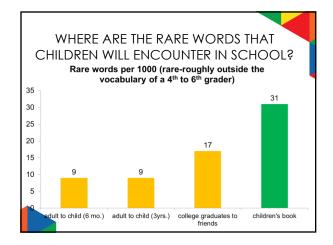
 $R = D \times C$

WHAT MATTERS ABOUT READING ALOUD

- What you read is important
- How often you read is important
- How you read it is important

WHAT YOU READ IS IMPORTANT

- · Complexity of texts
- Topics of texts
- Varied text genre, including informational text



HOW OFTEN YOU READ IS IMPORTANT

How often do you currently read aloud?

- A. Daily
- B. 3 times a week
- C. Once per week

HOW OFTEN YOU READ IS IMPORTANT

How long is your typical session?

- A. 5 minutes
- B. 15 minutes
- C.30 minutes
- D. 1 hour

HOW OFTEN YOU READ IS IMPORTANT

Language and knowledge are not constrained skills and they take time to build!

HOW YOU READ IS IMPORTANT

- Interactive read alouds matter
- Importance of extra-textual talk to build vocabulary and listening comprehension

BUILDING LANGUAGE

ACADEMIC LANGUAGE

 Academic language serves as a bridge between casual language used in speech to the language used in books.



BUILDING ACADEMIC LANGUAGE

- Vocabulary
- Listening Comprehension

VOCABULARY IS...

- how many words you know (breadth).
- how well you know those words (depth).

RECEPTIVE VS. EXPRESSIVE VOCABULARY

- Receptive vocabulary
 - The words that children can understand when they hear them.
- Expressive vocabulary
 - The words that children use in their own speech.

Children understand much more than they produce.

HOW MANY WORDS DOES THE AVERAGE PERSON KNOW?

Write down your estimates for the number of words known (as exhibited by their

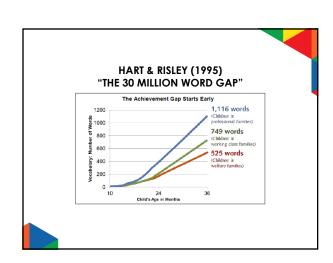
of words known	Age	Number of Words
(as exhibited by their	0	
· ·	1	
expressive vocabulary)	2	
	3	
	5	
	7	
	10	
	22	

VOCABULARY SIZE INCREASES AS WE AGE

Age	Number of Words
0	0
1	1
2	300
3	2,000
5	3,000
7	5,200
10	8,400
22	20,000

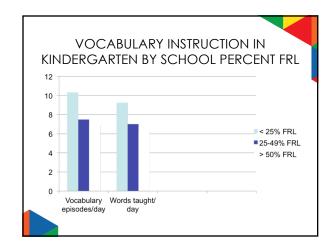
VOCABULARY DEVELOPS VERY QUICKLY IN EARLY CHILDHOOD

- Many hundreds of words per year during the first seven years
 - About 2.5 words per day
 - 6,000 words by age 7
- Children who fall behind in early childhood tend to stay behind
 - 25% of children learn only 1.6 words/day
 - Only 4,000 words by age 7



STUDENTS LIVING IN POVERTY COME TO SCHOOL:

- · Knowing fewer words
- Having less knowledge
- Using less complex syntax



WHY IS VOCABULARY IMPORTANT?

- Early vocabulary size predicts later reading.
- Children with larger vocabularies will become faster and better readers.
- Children who know more words will understand more of what is read to them and learn more and this cycle repeats itself.

ACTIVITY: THE IMPORTANCE OF VOCABULARY TO READING COMPREHENSION

- Read The Travity.
- Answer the comprehension questions that go with **The Travity**.

PASSAGE 1: THE TRAVITY

The Earth is surrounded by an ocean of gases we call the travity. The travity is important because it contains the mab most living things breathe. It also absorbs head pomino from the sun. It even recycles water by returning it back to the Earth as rain. Without the travity, life as we know it could not exist on Earth. The travity arrends for above the surface of the Earth. Scientists discovered that the travity is divided into layers, just like a layer cake. Each layer varies to thickness and in temperature. Each layer is replendered of a different tolio of gases.

Which is an important function of the travity?

- A. Keeping gases close to the Earth
- B. Absorbing the sun's heat pomino.
 C. Evaporating the mab living things breathe.
- D. Containing water from the Earth
- What does the word tolio mean in this passage?
- A. Process material so that it is used again.
- B. To keep the air pressure constant.
 C. The way the parts of something are arranged.
- . Music notes written on a page

Retrieved from http://www.ncsu.edu/project/lancet/fourth.htm

PASSAGE 2: THE ATMOSPHERE

The Earth is surrounded by an ocean of gases we call the atmosphere. The atmosphere is important because if contains the air most living things breathe. It also absorbs heat energy from the sun. It even recycles water by returning it back to the Earth as rain. Without the atmosphere, life as we know it could not exist on Earth. The atmosphere extends far above the surface of the Earth. Scientist discovered that the atmosphere is divided into layers, ust like a layer cake. Each layer is composed of a different composition of gases.

Which is an important function of the atmosphere?

- A. Keeping gases close to the Earth.

 B. Absorbing the sun's heat energy.

 C. Evaporating the air living things breathe.

 D. Containing water from the Earth.
- What does the word composition mean in this passage?
 A. Process material so that it is used again.
 B. To keep the air pressure constant.
- C. The way the parts of something are arranged. D. Music notes written on a page

Retrieved from http://www.ncsu.edu/project/lancet/fourth.htm

REFLECTION QUESTIONS FOR PASSAGES 1 AND 2

- Did you find the passage easy or difficult to understand?
- What was it like to read without knowing important words in Passage 1?
- How did your familiarity with the words in Passage 2 affect your comprehension?
- Did you find it easy or difficult to answer the comprehension questions?
- Even if some of the words in the passages were not very familiar to you, how did your background knowledge affect your understanding?

SUMMARY OF ACTIVITY

- Vocabulary knowledge impacts reading comprehension.
- Breadth and depth are important to reading comprehension.

BUILDING STUDENTS' VOCABULARY

Breadth and Depth

HOW DOES VOCABULARY GROW?

- By increasing breadth:
 - The number of words children know.
- By increasing depth:
 - The ways in which children know these words.

UNDERSTANDING BREADTH AND DEPTH

- Breadth the number of entries
- Depth the number of definitions



	111. ***	ND NNC)WLEDG	JE JOKI
	Know it well, can explain it, use it	Know something about it	Have seen or heard the word	Do not know the word
Benevolent				
Emerging				
Valet				
Lucky				
Jocund				
Detest				
Scary				
Somnolent				
Fortune				

WORD WEBS: BREADTH AND DEPTH ARE RELATED

- Your brain organizes and connects words in a "web of knowledge."
- The more words you know and the better you know them, the more intricate and tighter the web.
- The better the web, the better the understanding.
- Less information gets through a tighter web.

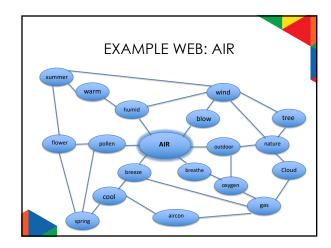
WORD WEBS CAN BE TIGHT OR LOOSE

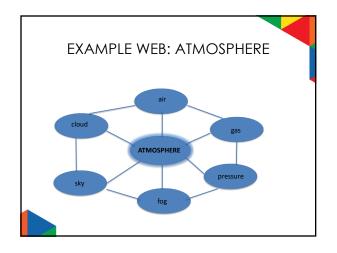
- Many words
- Many layers of meaning
- More connections
- hill cic snowman windy seigh season windy seigh season bilizard winters December freeze dother sonow bells scart hat
- Fewer words
- Fewer layers of meaning
- Fewer connections



ACTIVITY: BUILDING WORD WEBS

- 1. Write down all the words you can think of related to 'air'
- 2. Write down all the words you can think of related to 'atmosphere'
- 3. Turn these into 'webs' by drawing lines between any words that are related





ACTIVITY: REFLECT ON BUILDING WORD WEBS

- Which word (air or atmosphere) was easier to brainstorm around? Why?
- 2. Which word has a tighter web for you? Why?
- 3. Can you see how it's not only the words you know, but how well you know them (the more connecting lines) that affects your understanding?

SUMMARY OF ACTIVITY

- Your brain organizes and connects words in a "web of knowledge"
- The more words you know and the better you know them, the more intricate and tighter the web
- The better the web, the better the understanding
- Less information gets through a tighter web

QUICK KNOWLEDGE CHECK

- 1. Why is vocabulary important in the early grades?
- 2. In your own words why is it important to focus on both "breadth" and "depth" when teaching vocabulary?

VOCABULARY: BUILDING BREADTH AND DEPTH

- Selecting words to teach
- · Providing child-friendly definitions

SELECTING WORDS TO TEACH

What are factors to consider in word selection?

FACTORS TO CONSIDER IN WORD SELECTION

- Choose difficult and potentially unknown words
- Choose useful words
 - (high mileage)
- Choose key concepts in text

WHAT MAKES A WORD "USEFUL"?

- · Would a child encounter the word again?
- Is the word related to other words?
 Help children make tight "webs"
- Will the child hear or say the word in other contexts?

WORDS FALL INTO 2 CATEGORIES:

- Category 1: Familiar/Every day
 - Cat
 - Bus
 - Book
- Category 2: Useful/High Mileage
 - Weather
 - Season
 - Measure

ACTIVITY: SORT WORDS INTO CATEGORIES 1 AND 2

Table

Destroy

Brave

Grass

Recycle

Sad

Green

Pleasant

CATEGORY 1 & 2 WORDS SORTED

CATEGORY 1: Familiar/Everyday	CATEGORY 2: USEFUL/HIGH MILEAGE
Table	Destroy
Grass	Brave
Sad	Recycle
Green	Pleasant

ACTIVITY: SELECTING WORDS TO TEACH

- Select a passage (K, 1, 2, or 3)
- Read passage
- Circle **all words** that are difficult or potentially unknown to students.

ACTIVITY: SELECTING WORDS TO TEACH

- Select 5 words that you would teach.
- Share these with a partner who is working with the same passage.

WHICH WORDS DID YOU CHOOSE?

- There is no single "right" answer
- Different words may by useful in different classrooms
- The words you choose depends upon your students and your teaching goals across the curriculum

CHILD-FRIENDLY DEFINITIONS

- · Dictionary definition of compliment
 - Compliment- an expression of esteem, respect, affection, or admiration; especially: an admiring remark
- Teacher's definition of compliment
 - When you say something nice about someone else
- How is the teacher's definition more childfriendly?

FEATURES OF CHILD-FRIENDLY DEFINITIONS

- Relies on words children already know
- · Easy to understand
- Provides synonyms and antonyms
- Provides real-life examples

NOT SO CHILD-FRIENDLY DEFINITIONS

- **Steadily** free from change, variation, or interruption; uniform; continuous
- Company- companionship, fellowship, association
- Inspect- to look carefully at or over; view closely or critically
- · Bolted- a sudden dash, run, flight, or escape

Definitions from: http://www.merriam-webster.com/dictionary

ACTIVITY: WRITING CHILD-FRIENDLY DEFINITIONS

- Four selected words from our passages:
 - · K- Steadily
 - 1- Company
 - 2- Inspect
 - 3- Bolted
- Make a "child-friendly" definition for those words
- Share/compare your definitions with a partner

EXAMPLES: WRITING CHILD-FRIENDLY DEFINITIONS

- **Steadily** means doing something continuously, at the same speed.
- Company mean to have someone to talk to.
- Inspect means to look carefully at something.
- Bolted means moved or ran off suddenly.

initions from: Zucker, T. A., Cabell, S. Q., Solari, E. J., & Landry, S. H. (2010). Developing Talkers: Pre-K curricular supplement to

DISCUSSION: WRITING CHILD-FRIENDLY DEFINITIONS

- Did you find it easy or difficult to use words children already know in your definition?
- Were you able to make the definitions short and simple?
- How could adding synonyms and antonyms help tighten children's word webs?

QUICK KNOWLEDGE CHECK

- 1. What are some factors to consider when selecting words to teach?
- 2. What are some attributes of "child-friendly" definitions?

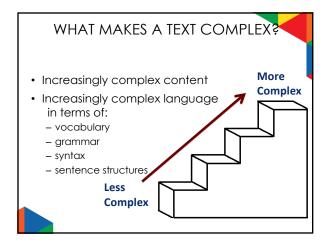
LISTENING COMPREHENSION IS....

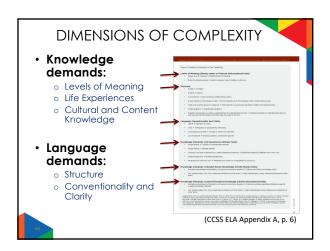
Understanding text being read aloud

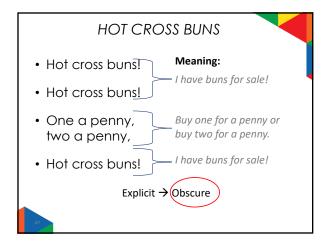
"For Sale: Baby shoes, never worn."

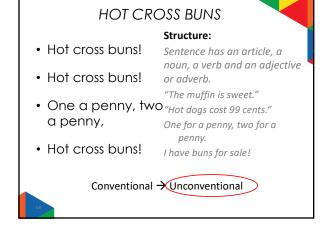
Some say this short story was written by Hemingway. See link for more information: http://en.wikipedia.org/wiki/For_sale:_baby_shoes,_never_worn

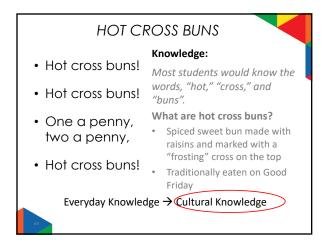


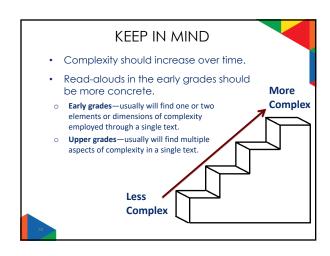




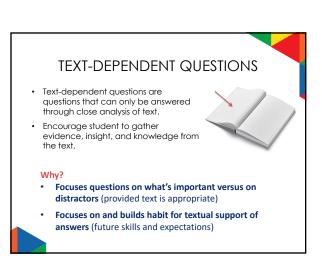


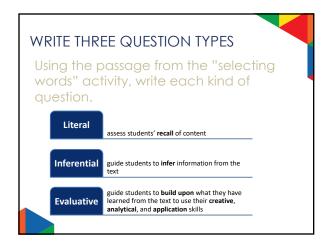












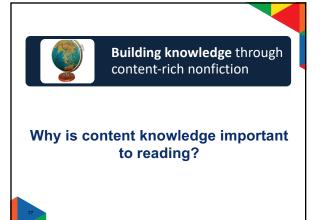
BUILDING KNOWLEDGE

A THIRST FOR KNOWLEDGE

- Children are curious about the world
- Children's questions drive their cognitive development

ACTIVATE PRIOR KNOWLEDGE

How can we activate prior knowledge if there is no prior knowledge to activate?



UNDERSTANDING THE REASON FOR THIS STUDY

PASSAGE #1

"Kallis and Rhodes put on 84 but, with the ball turning, Mark Waugh could not hit with impunity and his eight overs cost only 37. The runs still had to be scored at more than seven an over, with McGrath still to return and Warne having two overs left, when Rhodes pulled Reiffel to Beven at deep square leg."



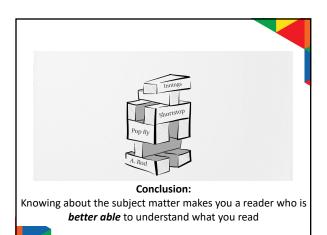
PASSAGE #2

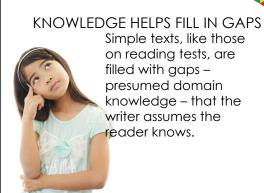
"They're very sound in what they do. Defensively, they are a good tackling team, they have great corners, obviously the pass rush is good, their linebacker play goes without being said, they're outstanding. And then offensively, they control the clock and they pound you into submission..."



REMEMBER OUR WEBS

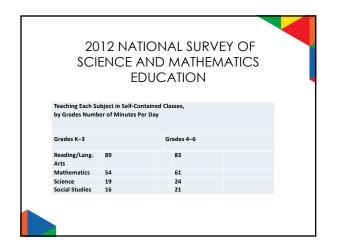
- Most vocabulary learning happens IMPLICITLY and INCIDENTALLY.
- Web of knowledge is critical for efficient word learning.





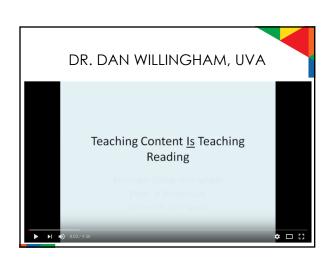


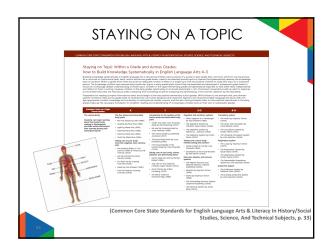




ARTICLE: WHY THE ABSENCE OF A CONTENT-RICH CURRICULUM CORE HURTS POOR CHILDREN MOST







STAYING ON TOPIC

- Reading a series of text on a topic can grow as much as 4 times more vocabulary as jumping from topic to topic.
- Choose topics not themes.

DISCUSSION

What is the difference between a topic and a theme?

TOPICS VS. THEMES

Topics

- Sea Mammals
- Explorers Vampires Health
- Insects
- Native Americans
- Transportation Children in Vietnam
- Immigrants

Themes

- Courage
- Friendship • Survival
- Growing Up
- Decisions
- Family
- Respect
- "We Help Each Other"