

Generating a Generative Stance on Vocabulary

A row of ten books with decorative spines in various colors: cream, yellow, orange, red, and blue. The spines feature intricate gold-leaf patterns, including geometric designs and stylized floral motifs. The books are standing upright against a blurred background of warm, bokeh lights in shades of orange and red.

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University of California,
Santa Cruz

Knowledge in the Digital Age

1986

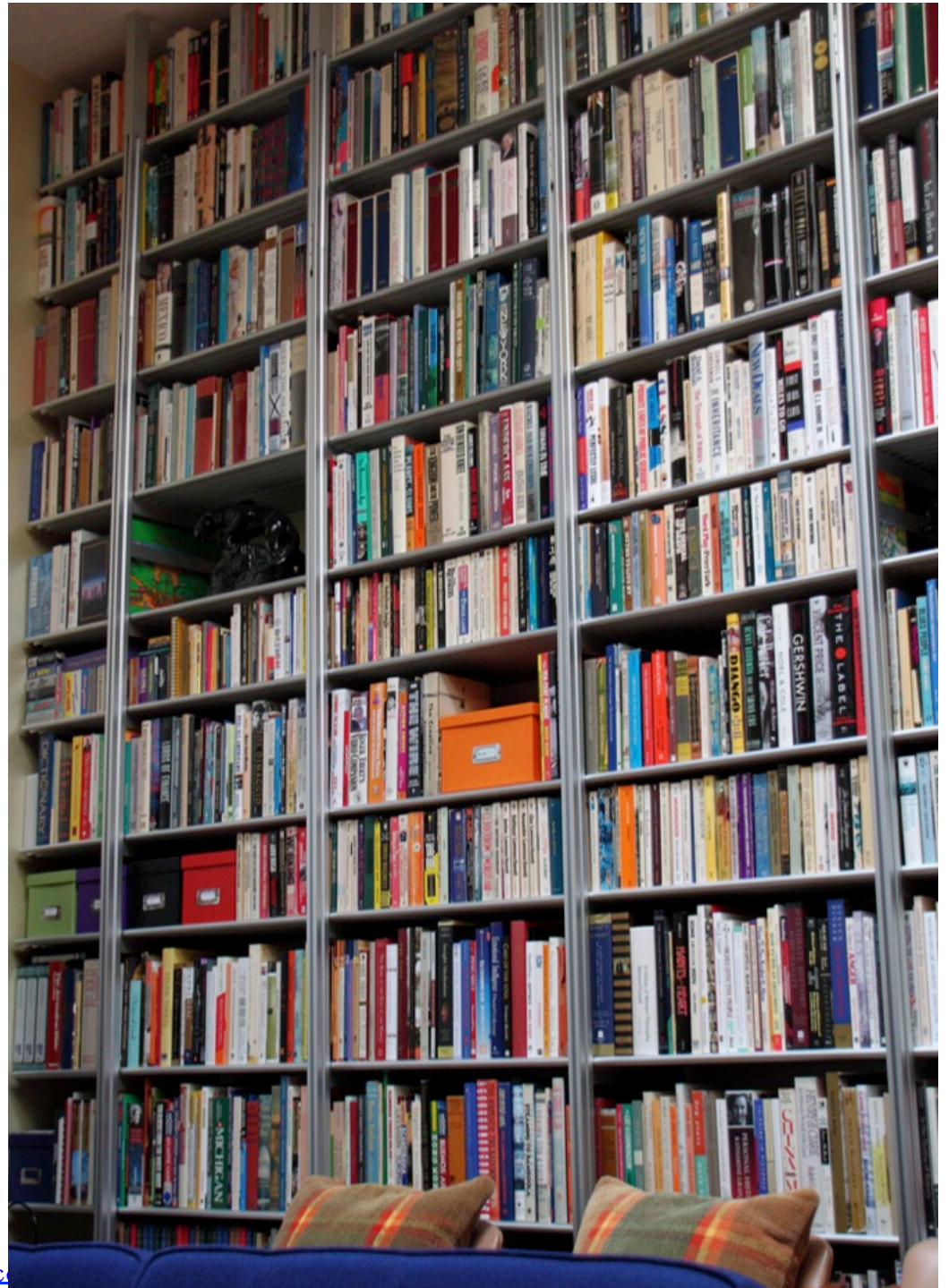


2007



2018

Knowledge is
“stored” in
texts and...



**texts typically
have more rare
words than
conversations/
oral language.**



Discussion #1:

1. How many words do you estimate are taught in your English/ Language Arts instruction in a year?
2. What percent of the English vocabulary is this?



Idea 1: You can't teach all English words but you can teach students about the underlying systems.

ENGLISH HAS THREE DISTINCT MORPHOLOGICAL SYSTEMS.





SMALL CHANGE 1: Have explicit conversations about rare vocabulary in ALL texts

**Talking
Points**

**For
Teachers**

Conversations about New Words in New Texts

Why?

- Develop the understanding that every complex text has new, challenging vocabulary. Vocabulary instruction gives students the means for figuring out new words in text, not instruction in every single word that might appear in new texts.

When?

- Talks about the vocabulary of new texts need to occur across a school year (with extra doses prior to assessment periods).

How?

- Demonstrate the nature of vocabulary with texts.

When 10-year old Amelia Mary Earhart saw her first plane at a state fair, she was not impressed. “It was a thing of rusty wire and wood and looked not at all interesting,” she said. It wasn’t until Earhart attended a stunt flying exhibition, almost a decade later, that she became seriously interested in aviation.

Idea	Action	Open-Access Resource
1. English has more words than can be taught.	1. Teach students to expect new words in texts.	1. Talking Points for Teachers: New Words in New Texts
2. A small group of words does the heavy lifting in English.	2. Increase volume of reading	2. •FYI for Kids •ReadWorks.org
3. Rare words in narrative texts belong to synonym networks; those in informational texts in topic networks.	3. Teach students prolific synonym networks & organize topics into networks.	3. •Super Synonym Sets for Stories (S4) •Exceptional Expressions in Everyday Events (E4)

DISCUSSION 2

1. What percentage of the vocabulary is the same across the texts in the IN end-of-year tests for Grades 3, 5, & 7?

IN—Grade 3

"And I can sing so well," added he. "Even sixteen house bred crickets, who have chirped and chirped and chirped ever since they were born, could never get anybody to build them a card house!"

Both the flea and the grasshopper knew well how to present themselves, and each considered himself quite an equal match for a Princess. The frog said not a word. The house dog, after going sniffing about him very carefully, confessed that the frog must be of a good family. And the King's old and trusted friend declared that the frog must be gifted with untold talents.

IN—Grade 5

It was painted blue outside and white within, and was just the size for two animals; and the Mole's whole heart went out to it at once, even though he did not yet fully understand its uses.

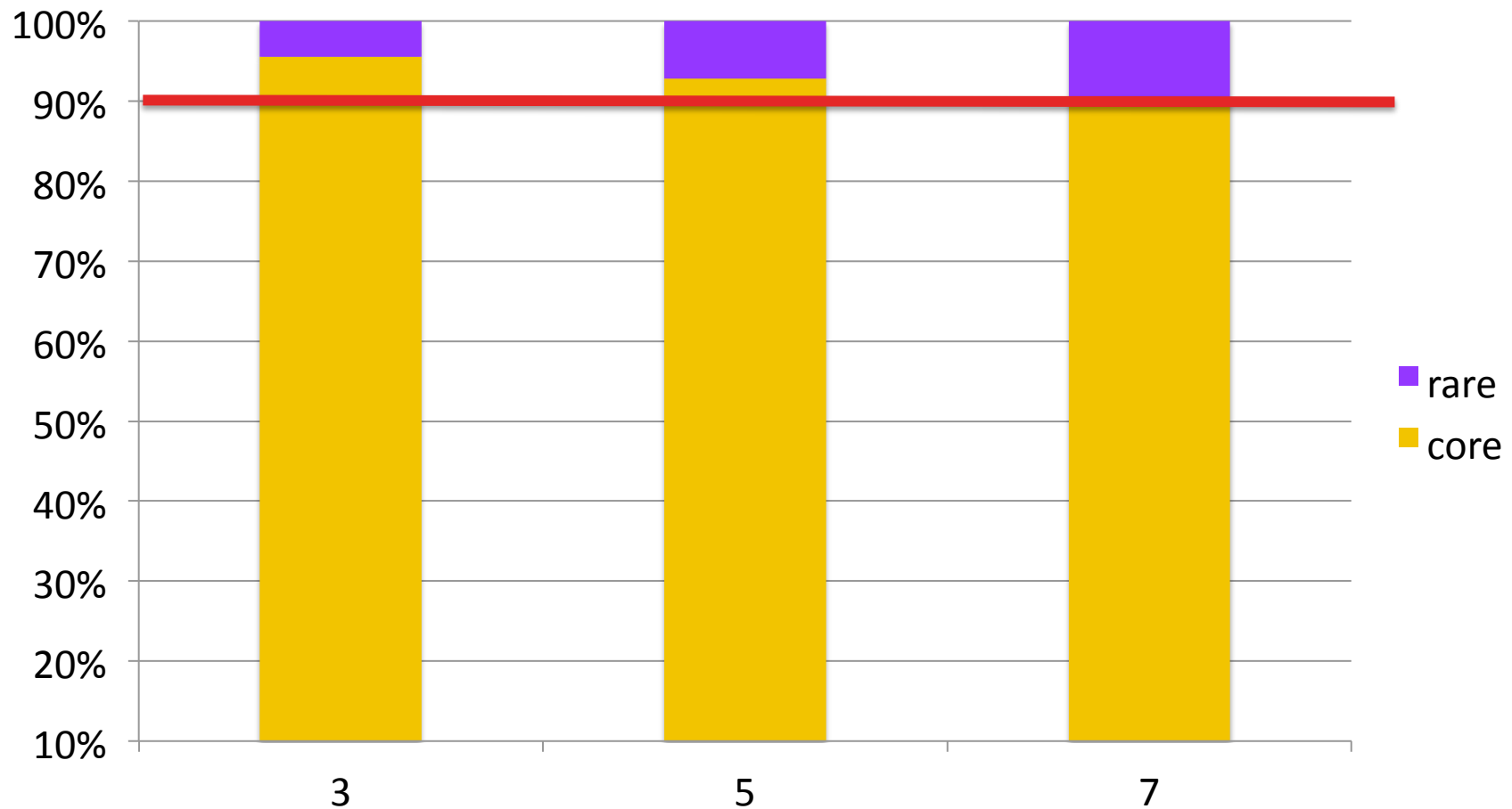
The Rat sculled smartly across and made fast. Then he held up his forepaw as the Mole stepped gingerly down. "Lean on that!" he said. "Now then, step lively!" and the Mole to his surprise and rapture found himself actually seated in the stern of a real boat.

"This has been a wonderful day!" said he, as the Rat shoved off and took to the sculls again.

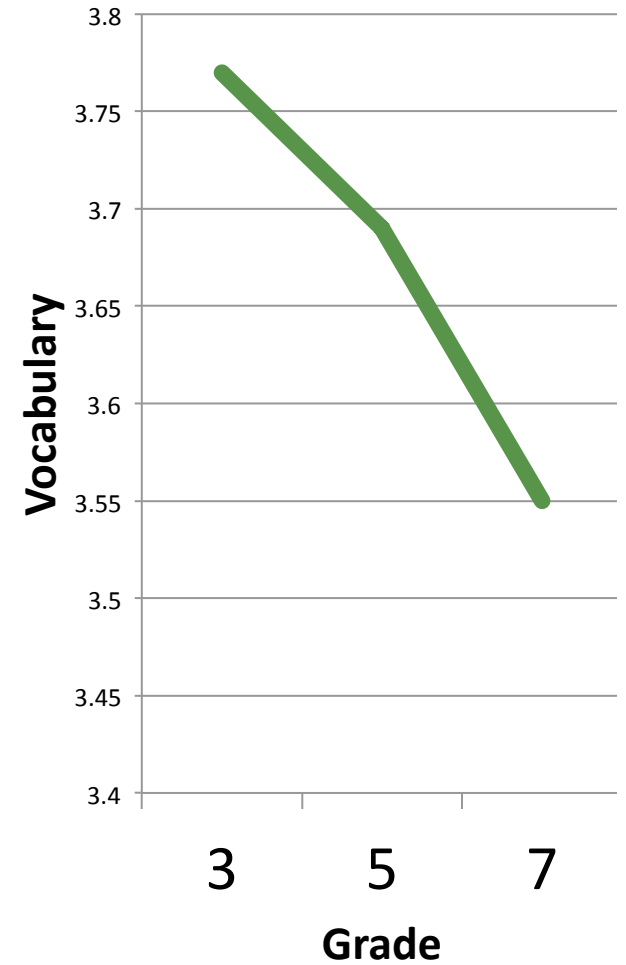
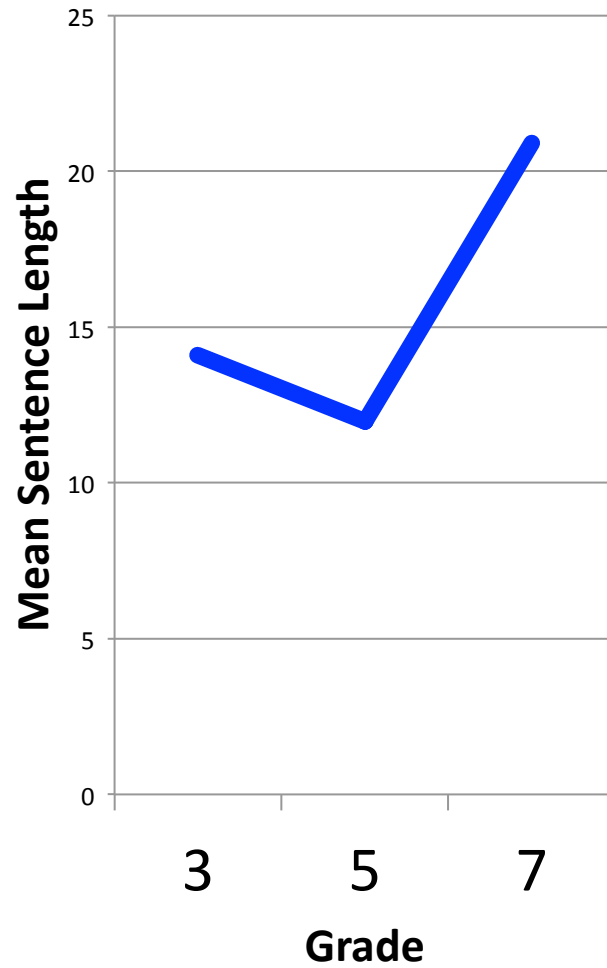
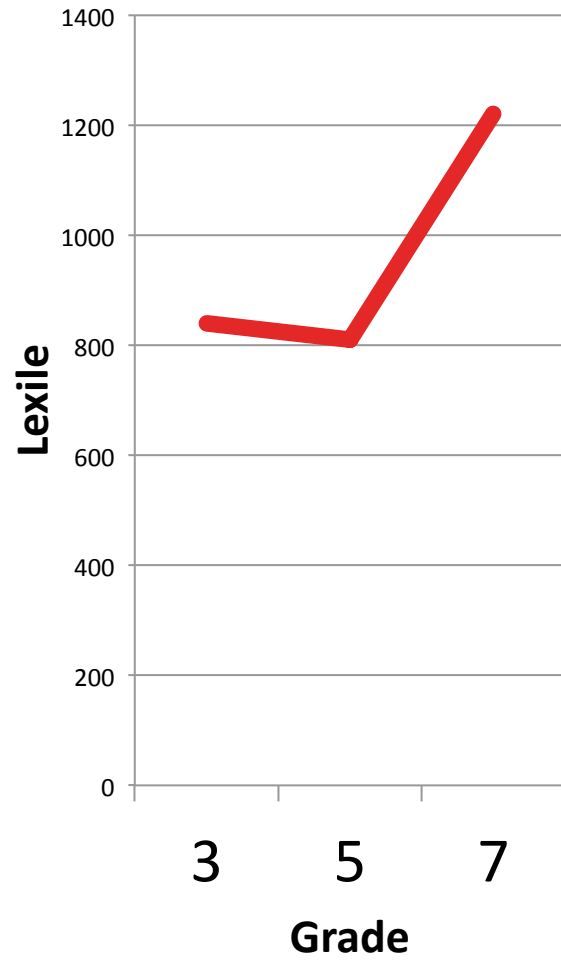
IN—Grade 7

Other men saw to the welfare of their dogs from a sense of duty and business expediency; he saw to the welfare of his as if they were his own children, because he could not help it. And he saw further. He never forgot a kindly greeting or a cheering word, and to sit down for a long talk with them ("gas" he called it) was as much his delight as theirs. He had a way of taking Buck's head roughly between his hands, and resting his own head upon Buck's, of shaking him back and forth, the while calling him ill names that to Buck were love names.

Word Patterns in IN Texts



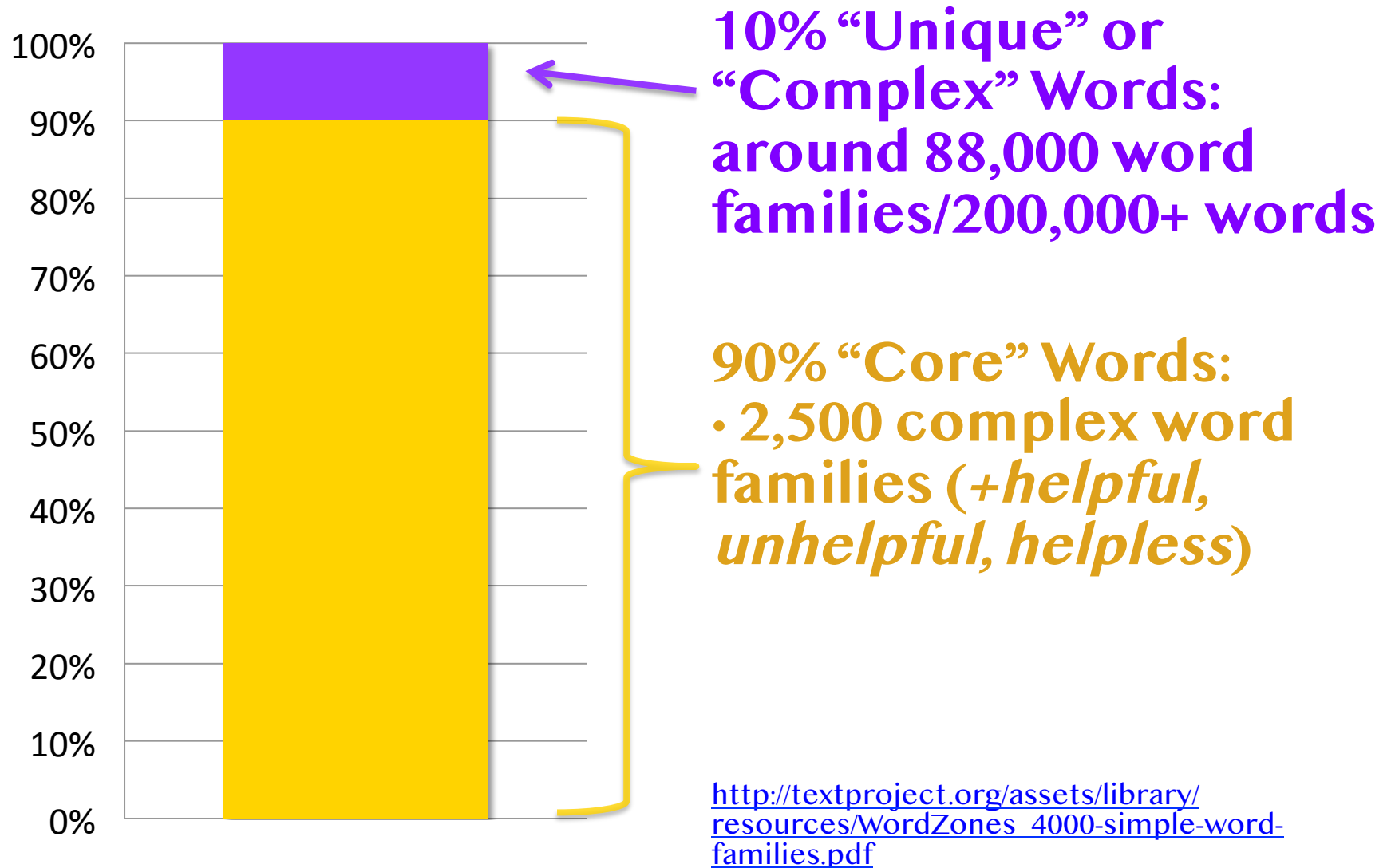
Lexiles of IN Texts





Idea 2: A small group of words does the heavy lifting in English.

The distribution of words in written English



Examples of the Words in the Core Vocabulary

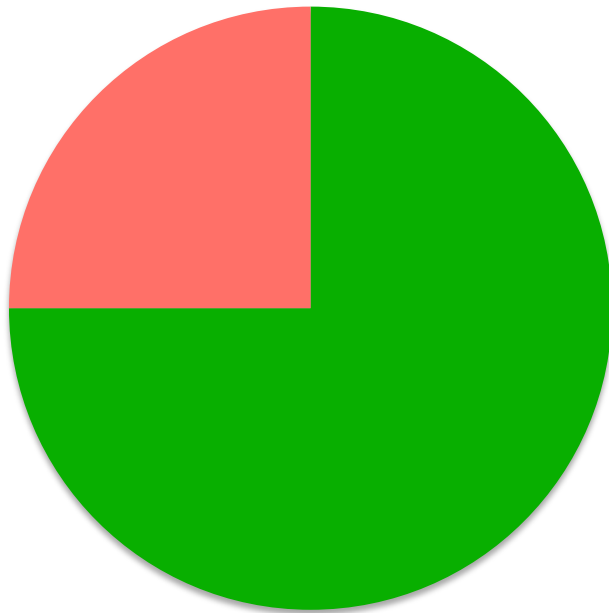
	words
1st 100	the, by, no, through, must
101-300	long, great, put, last, family
301-1,000	power, north, story, strong, answer
1,001-1,500	valley, imagine, motion, nearby, importance
1,501-2,000	character, responsible, design, presence, trail
2001-2,500	mixture, discovery, civilization, attitude, assume



Small Change 2: Support students' core vocabulary by increasing volume of reading

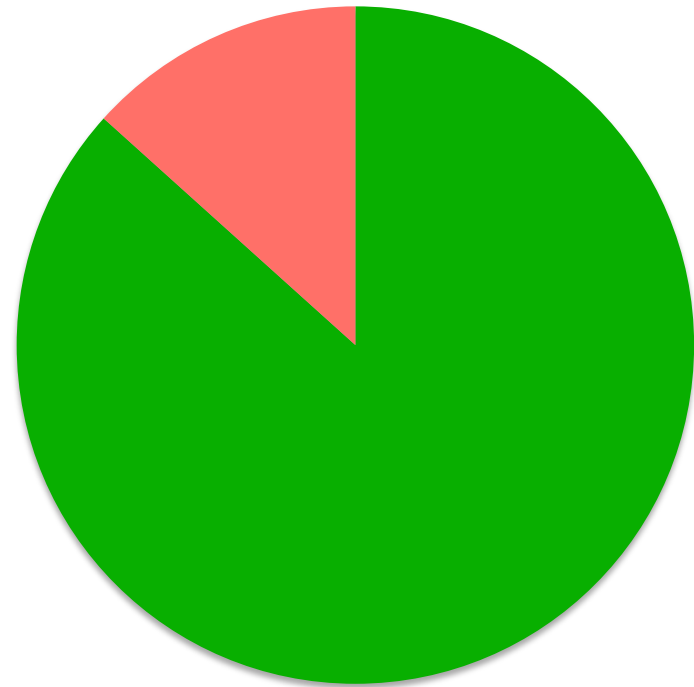
Time Spent in Reading Instruction & “Eyes on Text”

**Reading Instruction (1970s
to late 1980s)**

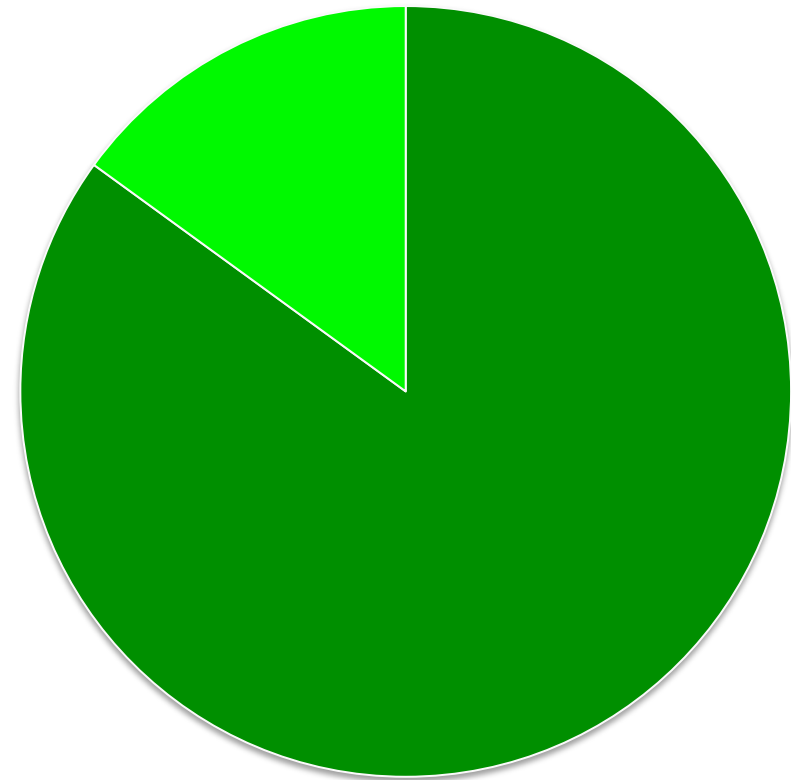


■ Instruction ■ Time Spent reading

Reading Instruction (late 1990s -)

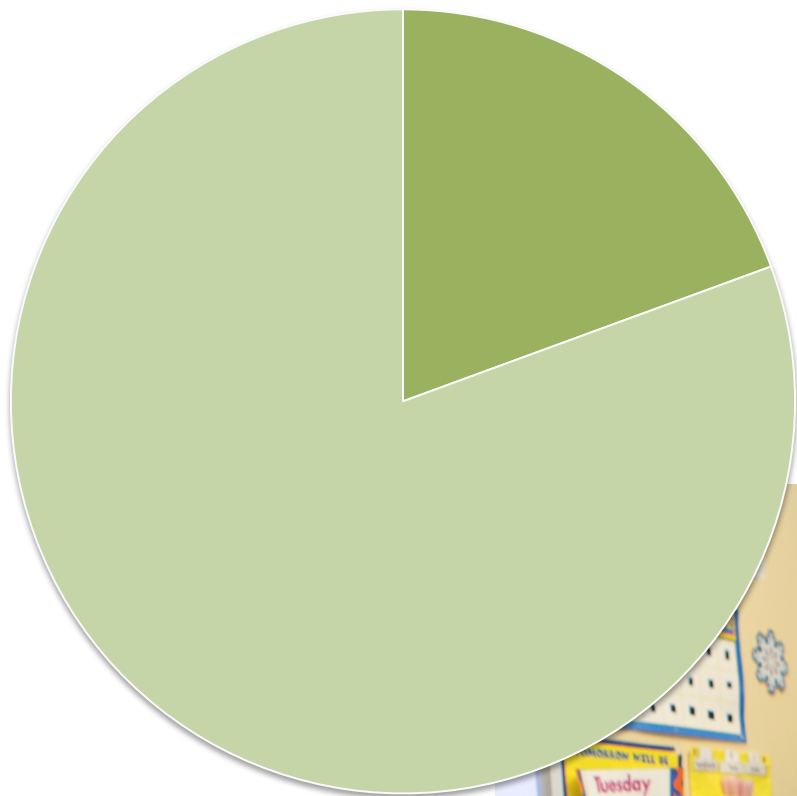


■ Instruction ■ Time Spent reading



■ Other activities ■ Reading

Swanson, Wanzek, McCulley, Stillman-Spisask,
Vaughn, Simmons, Fogarty, & Hairrell, 2015.



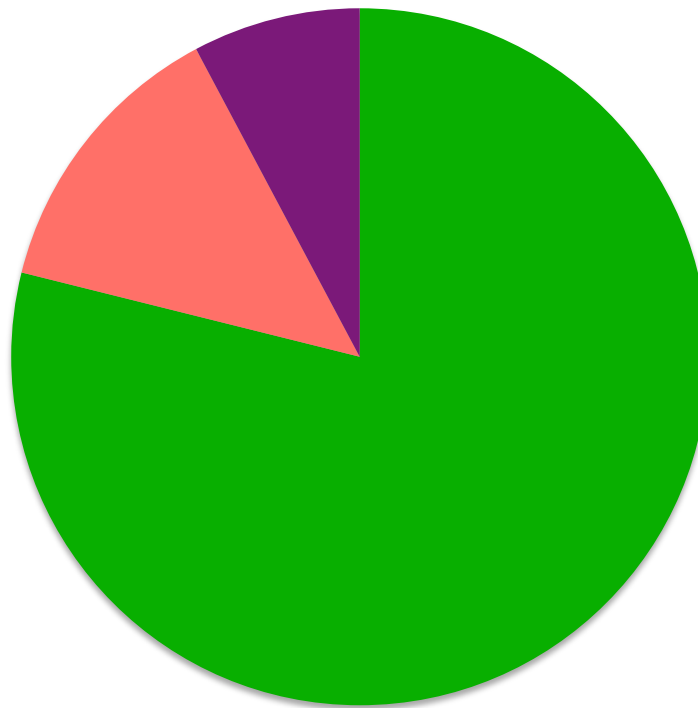
■ Silent Reading

■ Listening, Following Along to Oral Reading



7 Minutes of Additional Reading

**Reading Instruction
(w/ 7 additional minutes)**



■ Instruction ■ Time Spent reading ■ Additional 7 minutes



Way to increase reading?
Engage students in articles



Putting Two Words Together

volume 3
issue 2



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A lot of sports that people play use balls. In basketball, players try to get a ball through a hoop. In baseball, players use a bat to hit a ball. In football, players throw a ball to get it close to the goal.

There are other words with “ball” that describe things that are round. But they are not balls with which you play a game. Meatballs are not used in any sport. But

they are great with spaghetti.

Eyeballs help in playing sports. But there isn’t a sport called eyeball where teams throw and catch eyeballs. You wouldn’t want to be in a game that uses fireballs. If you would ever see a fireball, you should get as far away as fast as you can. Then call 911 right away. You should also watch out if a cannonball is going to be fired. It is round but you don’t want to play with a cannonball. You especially do not want to catch a cannonball!

There are some words, though, that have ball in them but it has nothing to do with round. Ballpoint pens make

writing a lot easier. It’s easy to see how the “point” got into ballpoint pen. But why the ball? That part is in the name because of the tip of a pen is round. There are also rooms that are called ballrooms. People hold balls in ballrooms but they aren’t the round kind.

Other words with ball have nothing to do with round. In these words, the “ball” part of the word is not even said the same as ball in baseball or meatball. Ballerina is not ball with “erina.” Ballerinas are dancers and the word has nothing to do with ball. A ballot is used by people to vote but it is not round. You don’t even say “ball” when you say the word ballot.

Whenever you see ball as part of a word, look carefully. Usually, the word has something to do with games and sports. But remember eyeballs, fireballs, and cannonballs. These balls may be round but they aren’t used in sports! Ballerina and ballot show that some words with “ball” have nothing to do with being round.



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Putting Two Words Together

volume 3
issue 2



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Kites: Dancers in the Wind

volume 3
issue 15



You're on a beach, and the wind is blowing off the ocean. Your kite floats and swirls, dancing in the wind.

Kites were invented in China more than 2,000 years ago. They were first used by the Chinese military, but about 1,000 years ago, people started flying kites for fun. Since then, kites have been used for celebrations, in competitions, and

for science. In addition, kite festivals show off the many shapes and colors of kites. These festivals are held in Japan, Pakistan, and many other countries.

The first kites were made of silk. After paper was invented, around the year 100 AD, people used it to make kites. Today, most kites are made of paper or cloth, with sticks to hold them in shape and string to hold onto them. However, there are also kites for skiing or for moving a buggy on a beach.

In ancient times, kites carried lines across rivers. These lines helped build bridges. In the 1880s, kites

were first used to take photographs. In the early 1900s, the United States Weather Bureau used kites to help with weather prediction. The kites measured winds and temperatures.

The word kite is from an Old English word that means "a kind of hawk." Kites were probably given this name because of the way they look when they fly.

To fly a kite, find a large open area, such as a park or a beach. Make sure there are no trees or power lines the kite can get caught on. Then hold the kite's string up and run. The kite will lift when it catches the wind. Guide your kite by pulling the string. Make sure you look around when you're running so you don't run into anything.

As you watch the kite, notice how it moves. If the wind is just right, your kite will dance, too, swirling as the wind takes it high up into the sky.



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**Readworks.org has
approximately 4,500 free
passages for Grades 1-High
School—including 450
curated sets of articles in the
Read-an-Article-a-Day
initiative**

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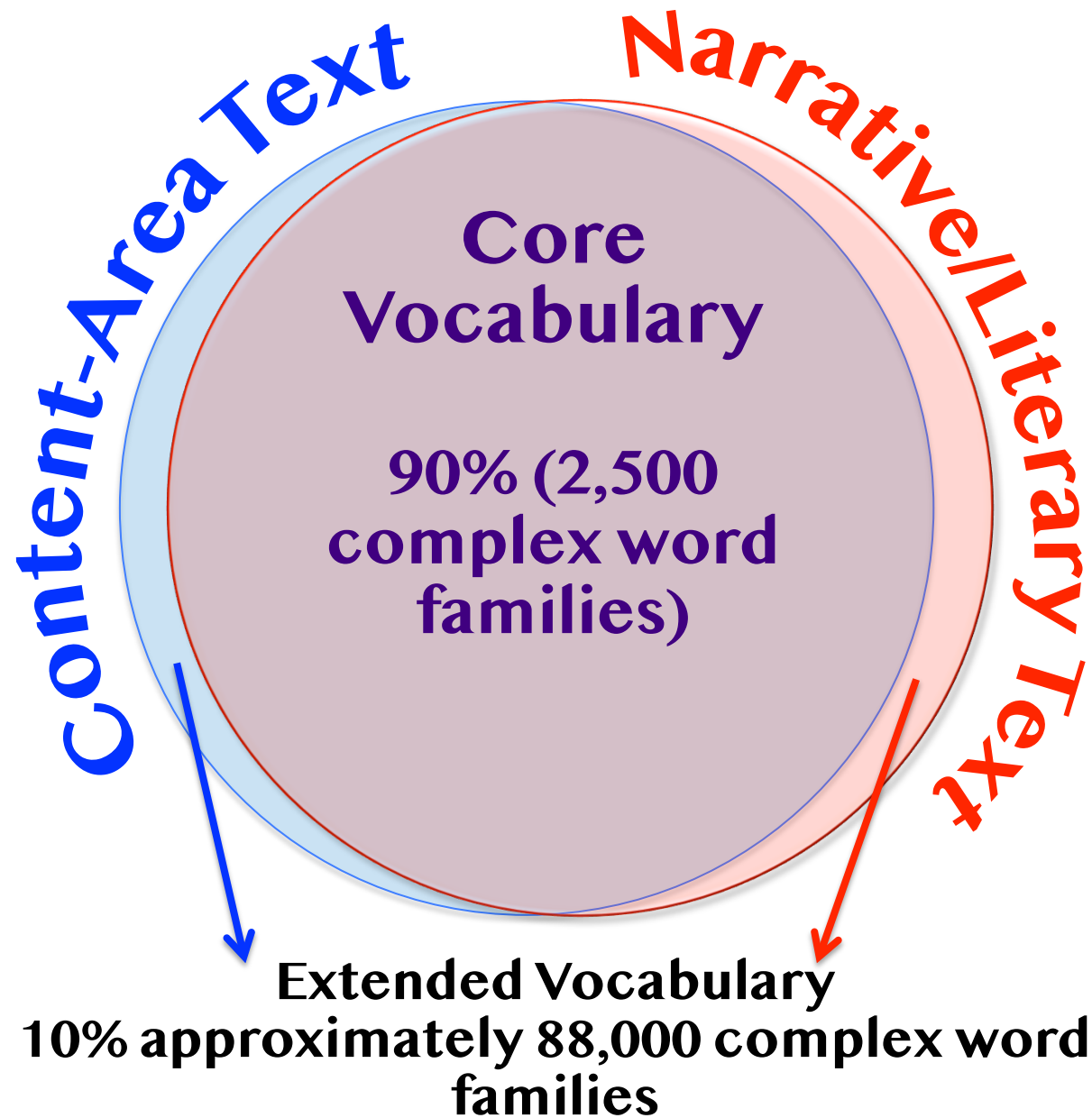
Discussion 3

- 1. How is rare vocabulary taught in narrative texts? In expository texts?



**Idea 3: Rare words are part
of networks**

The Other 10%: Rare Words in Writing



Narrative Text

Even with eyes protected by the green spectacles, Dorothy and her friends were at first dazzled by the brilliancy of the wonderful City. The streets were lined with beautiful houses all built of green marble and studded everywhere with sparkling emeralds. They walked over a pavement of the same green marble, and where the blocks were joined together were rows of emeralds, set closely, and glittering in the brightness of the sun. The window panes were of green glass; even the sky above the City had a green tint, and the rays of the sun were green.

From *The Wonderful Wizard of Oz* Frank Baum)

(a)
**Networks in
narratives
are
synonyms
related to
story
elements.**

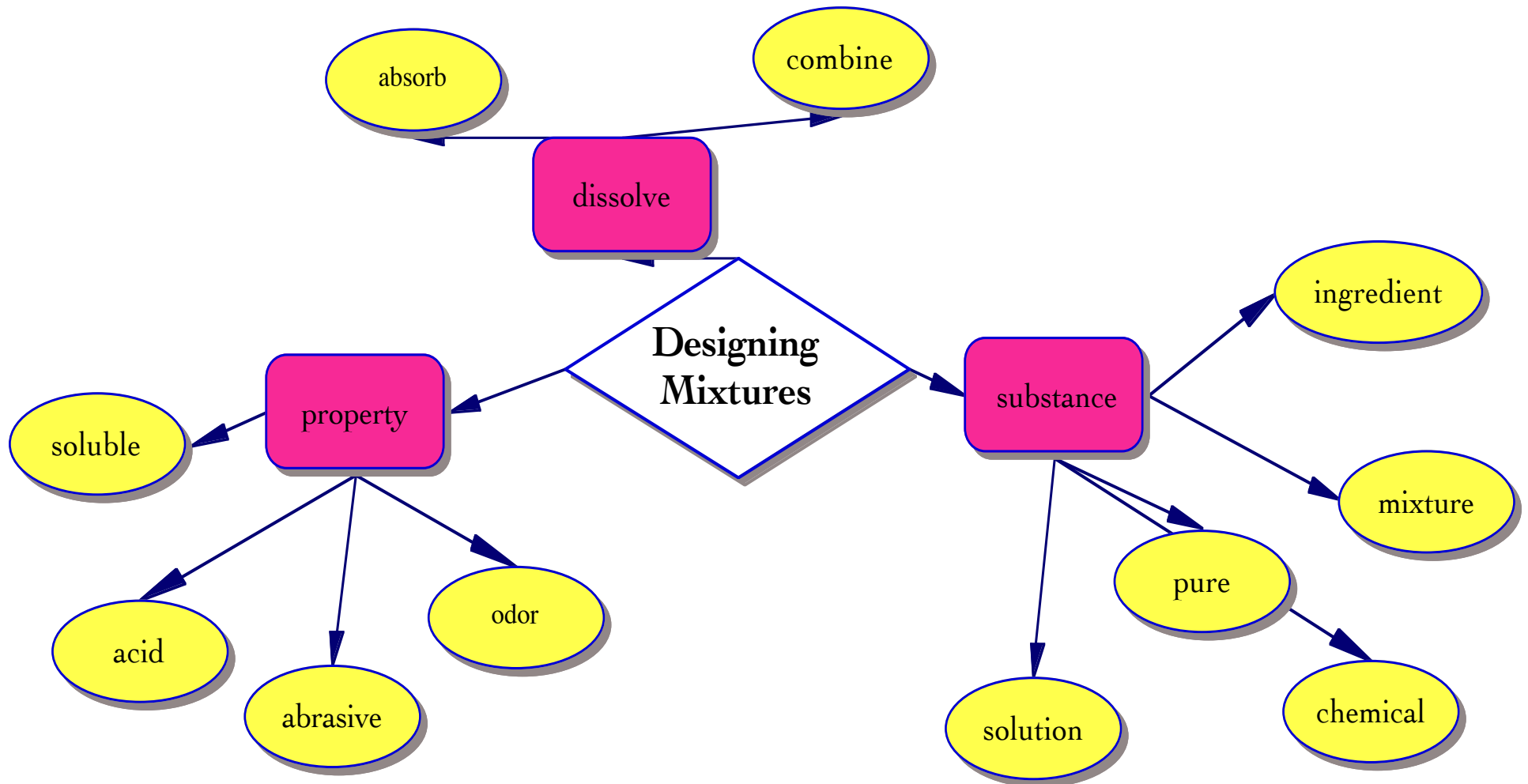
Story Word	Other Possibilities
dazzled	hypnotized awed
brilliancy	effulgence luminosity
glittering	shimmering radiance

(b) The rare words in
informational texts
belong to topical
networks.

Informational Text

A simple solution is basically two substances that are evenly mixed together. One of them is called the **solute** and the other is the **solvent**. A solute is the substance to be dissolved (sugar). The **solvent** is the one doing the dissolving (water). As a rule of thumb, there is usually more **solvent** than **solute**. The amount of **solute** that can be dissolved by the **solvent** is defined as **solubility**.

An Example of a Topical Network



A close-up photograph of a young child with blonde hair and blue eyes. The child is looking directly at the camera with a neutral expression. The background is blurred, showing some greenery and a blue object on the left.

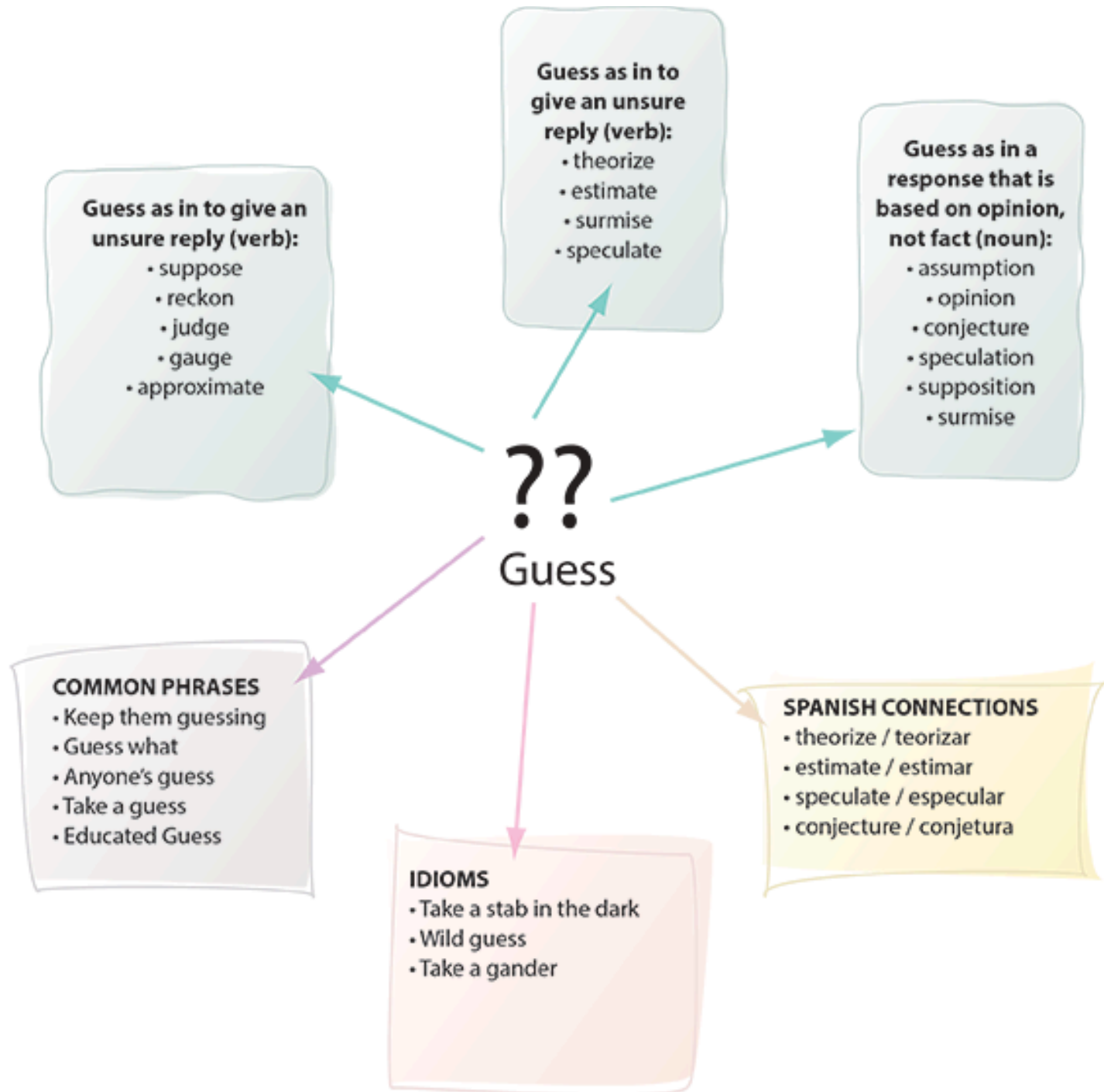
Small Change 3a: Teach Prolific Synonym Networks



Synonym Networks in Narrative Texts

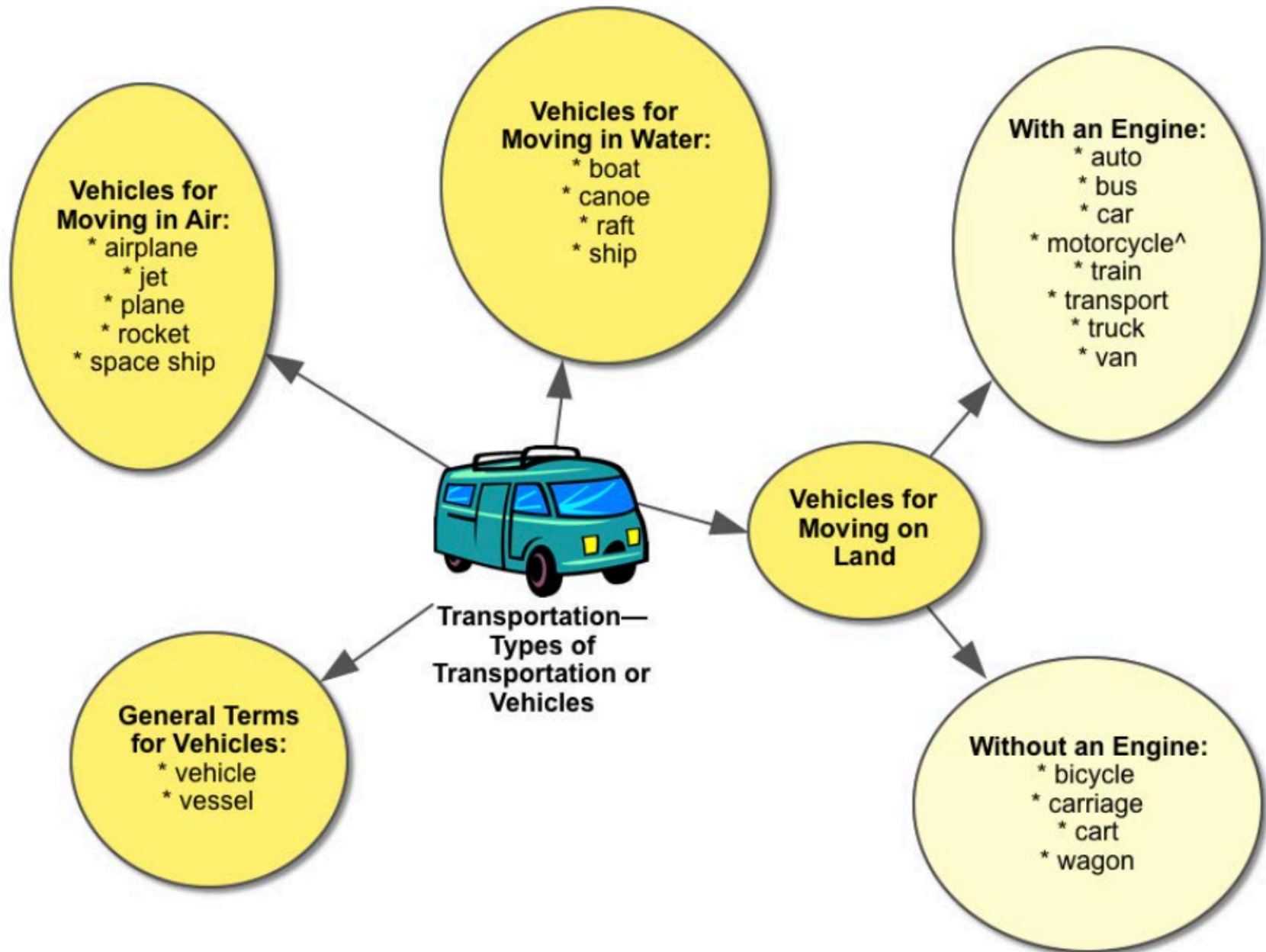
Prolific Groups of Synonyms

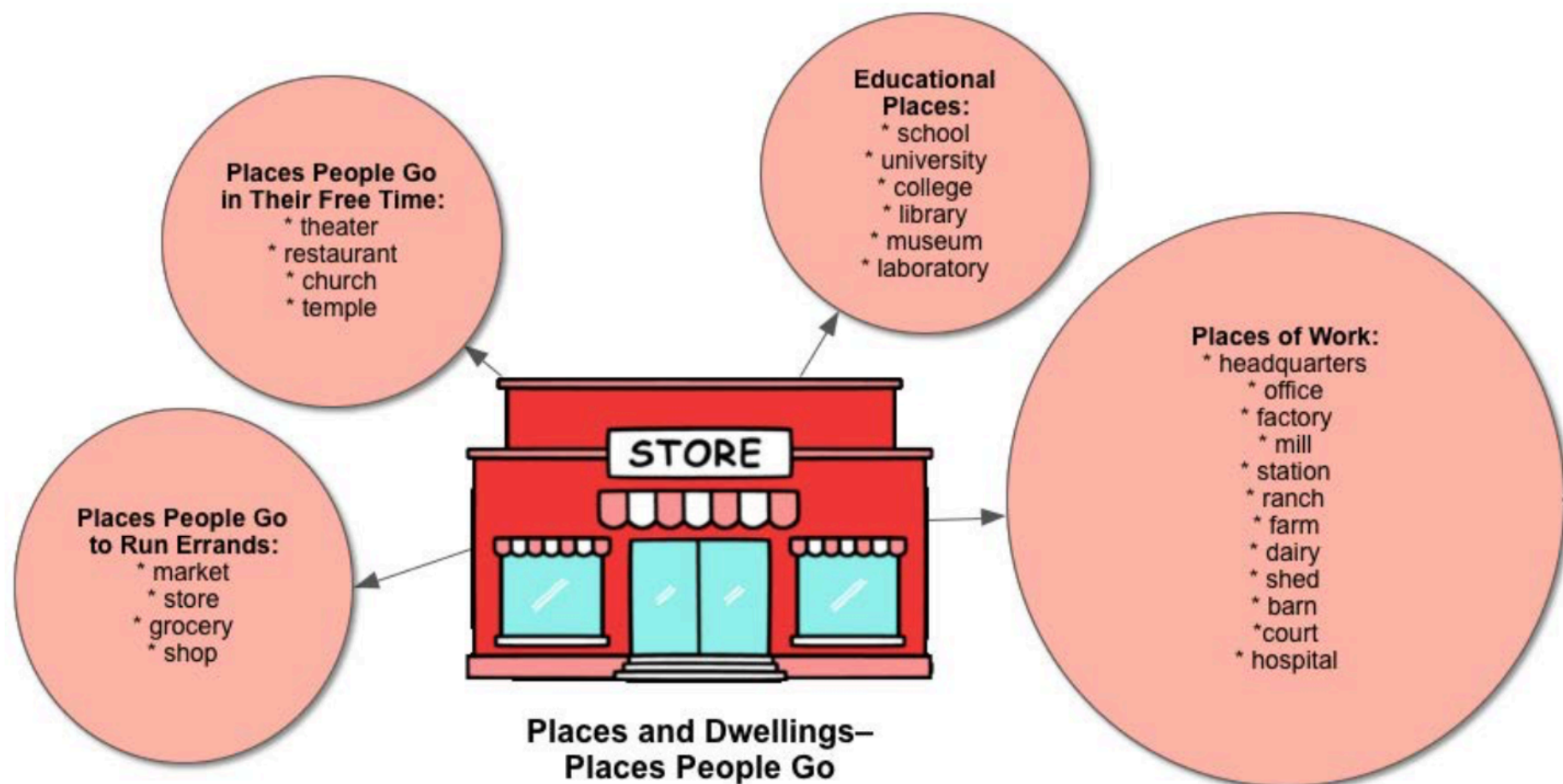
Communication /Internal Processes (verbs)	Emotions (adjectives)	Movement (verbs)	Traits (adjectives)
think	happy	go	funny
argue	sad	send	smart
look	mad	start	brave
guess	hope	stop	selfish
said	fear	stay	shy

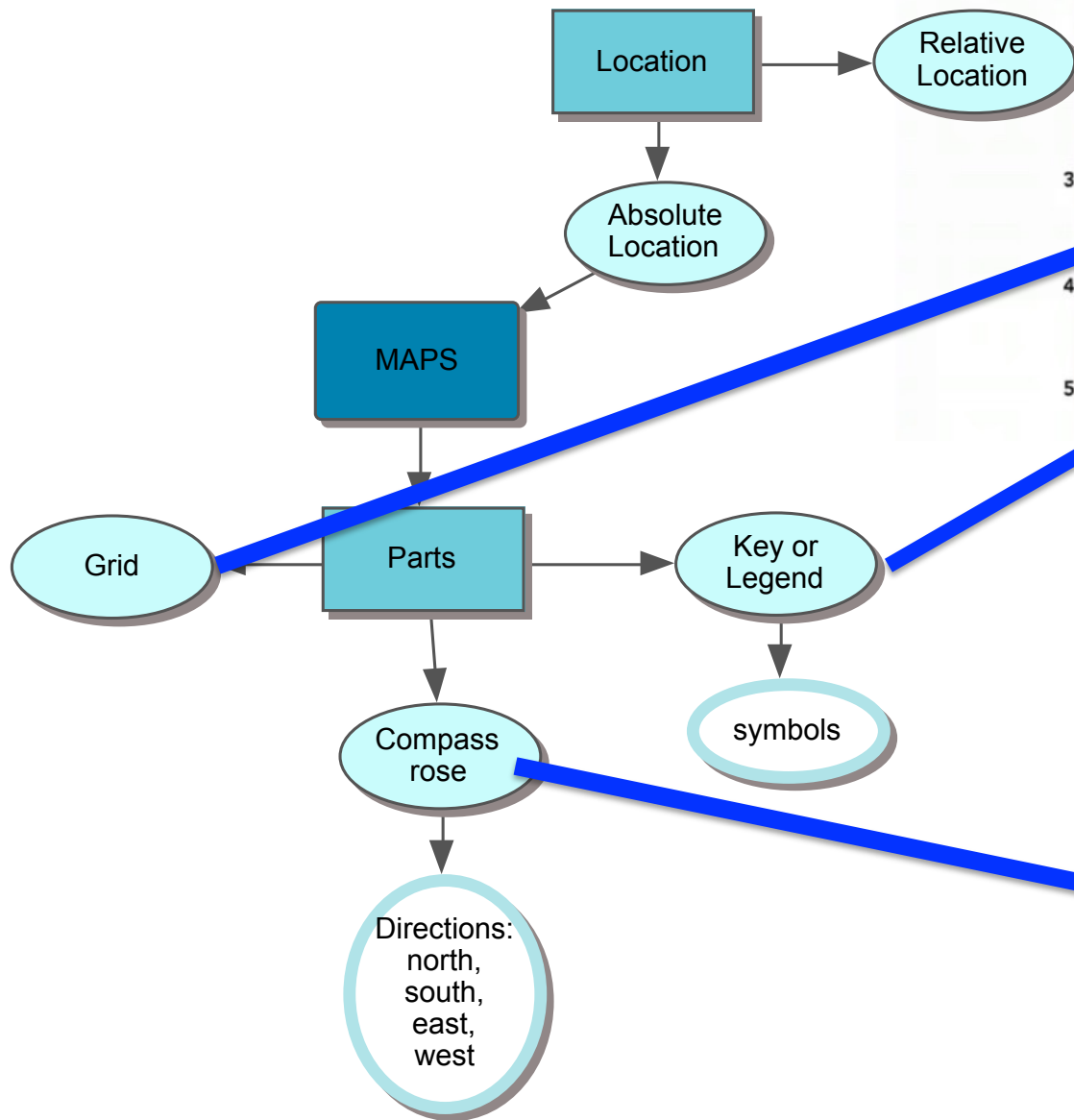


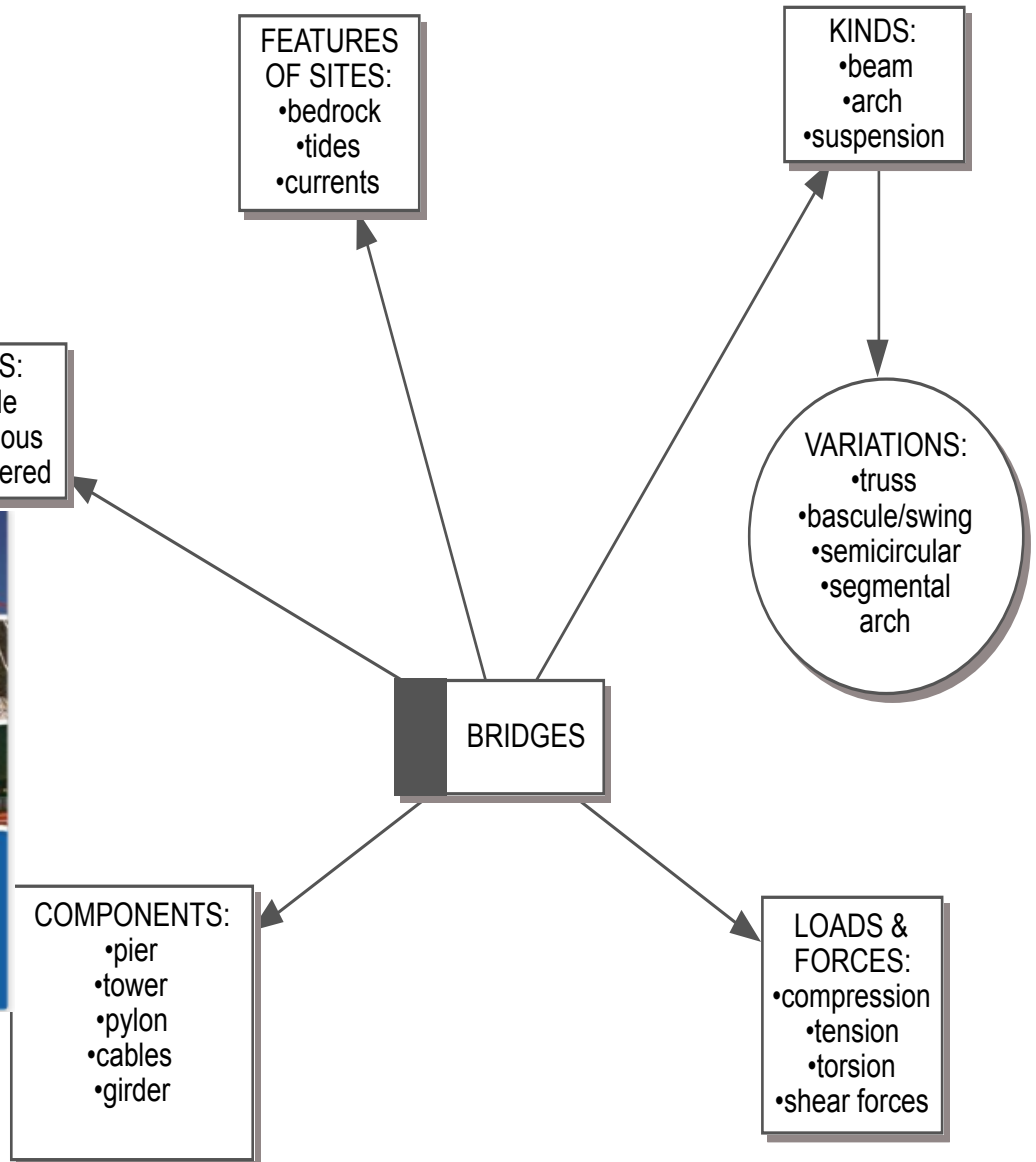
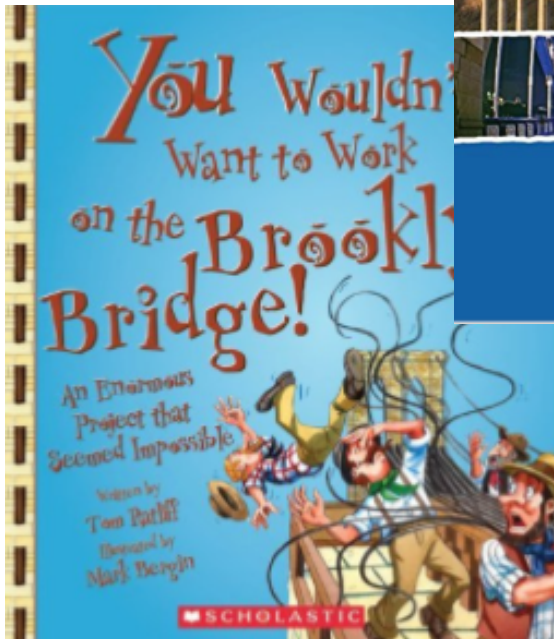
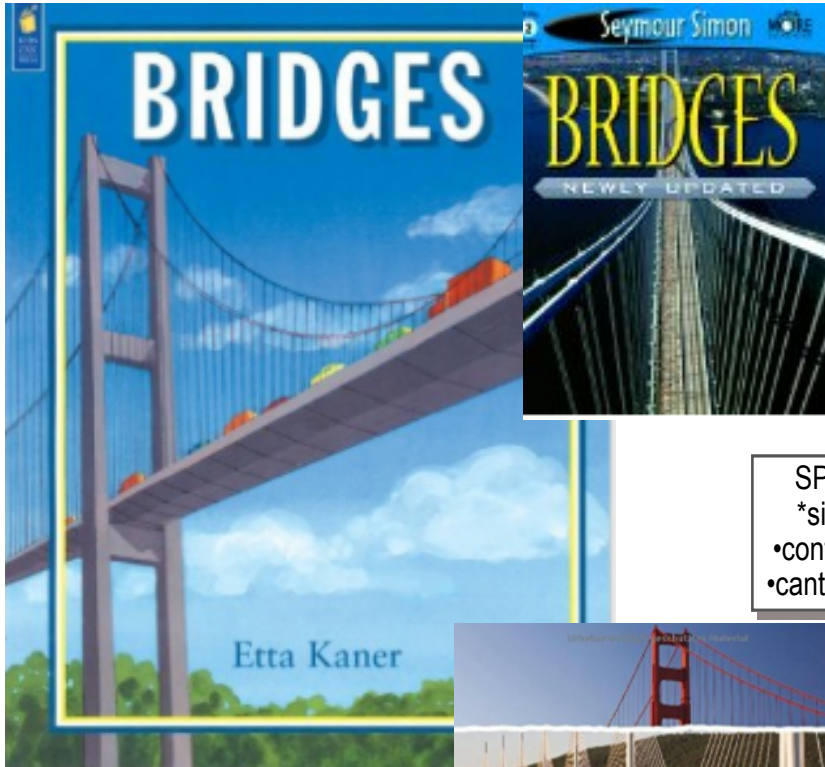


Small Change 3b. Teach vocabulary in topic networks.









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