Vocabulary Learning and Instruction Within the Literate Classroom

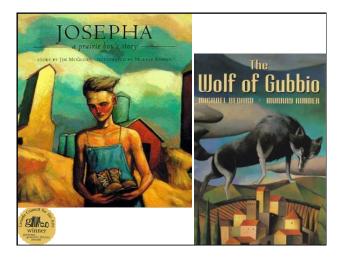
Elfrieda H. Hiebert TextProject & University of California, Santa Cruz Why We're Here

NORTHWEST PASSAGE

STAL ROGERS

WILLIAM

WOLF



Complex Text & Vocabulary

The Birchbark House

Startled, Omakayas slipped and spun her arms in wheels. She teetered, but somehow kept her balance. Two big, skipping hops, another leap, and she was on dry land. She stepped over spongy leaves and moss, into the woods where the sparrows sang nesting songs in delicate relays.

"Where are you?" Nokomis yelled again. "I found the tree!"

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Volcanoes

The mountain seemed much the same as it had been for the past month. Suddenly, at 8:32 a.m., Mount St. Helens erupted with incredible force. The energy released in the eruption was equal to ten million tons of dynamite.

The eruption of Mount St. Helens was the most destructive in the history of the United States.

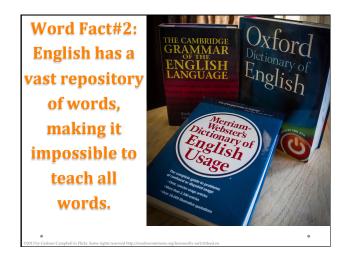
Word Fact #1: Knowledge is "stored" in texts,

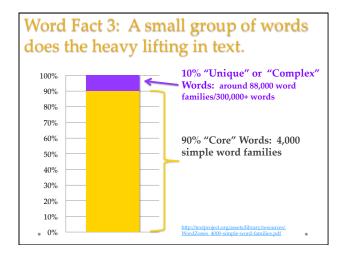


and texts typically have more rare words than conversations/ oral language.



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Core Vocabulary in Common Core Exemplars

2-3		
	.93	.92
4-5	.92	.91
6-8	.93	.87
9-10	.89	.91
11-CCR	.89	.87

Word Fact 4: Words are part of families.

- relate
- interrelated
- relationship

- related
- interrelationcorrelate
- interrelationship

- relatesrelating
- correlation
- relation
- relations
- relatedness

- age-related

Word Fact 5:
Words are parts of networks.

Core
Vocabulary

90% (4,000 simple word families)

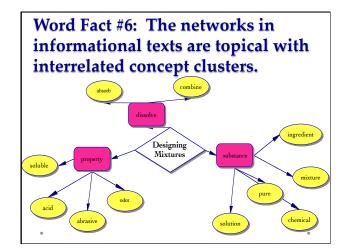
Extended Vocabulary

10% (approximately 88,000 complex word families)

The networks in narrative texts are synonyms related to story elements (e.g., traits, actions, and emotions of

characters).

Story Word	Beyond Story	
amazed	enchanted enthralled	
fascinated	spellbound captivated	
marveled	transfixed	
baffled	confused mystified	
bewildered	perplexed confounded	
stumped	3333347464	





The Foundation: Core Vocabulary

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Primary—Narrative

Owl's house had an upstairs and a downstairs. There were twenty steps on the . Some of the time Owl was upstairs in his bedroom. At other times Owl was downstairs in his living room.

When Owl was downstairs he said, I wonder how my upstairs is? When Owl was upstairs he said, I wonder how my downstairs is getting along?

Primary—Informational

When he was very young, George kept a garden where he spent hours each day caring for his plants. If they weren't growing well, he found out why. Soon they were healthy and . In winter he covered his plants to protect them. In spring he planted new seeds.

.

Middle Grades—Narrative

The Fish-began by producing from under his arm a great letter, nearly as large as himself, and this he handed over to the other, saying, in a tone, 'For the An from the Queen to play .' The Frog-repeated, in the same tone, only changing the order of the words a little, 'From the Queen. An for the to play

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Middle Grades—Informational

Throughout history, people have told stories about volcanoes. The early Romans believed in , their god of fire. They thought that worked at a hot , striking as he made swords and for the other gods. It is from the Roman god that we get the word volcano.

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Middle School - Narrative

Meanwhile, was urging on the on the frontfighters of his war-host to cross the but the
horses checked on the of it, in
fear, for it was deep and broad and set with
sharpened . And between ditch and wall, where
the back-driven Greeks were massing, there would be
no space to and fight.

Middle School - Informational

That muchlane would be an even greater
exercise in were it not for several
advances. The Universal Product Code
and the , introduced in 1974,
tally a shopper's groceries far more quickly and
accurately than the old method of each
purchase manually into a cash register.

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High School—Narrative

One morning, when woke from troubled dreams, he found himself in his bed into a horrible . He lay on his -like back, and if he lifted his head a little he could see his brown belly, slightly and divided by into stiff sections.

•

High School—Informational

If a cod fisherman of day could have returned to work in the year 1900, he would have been by the new inventions on shore, but once he went to sea his job would have seemed familiar. When John voyage opened up North American waters to Europeans, the nature of cod fishing changed

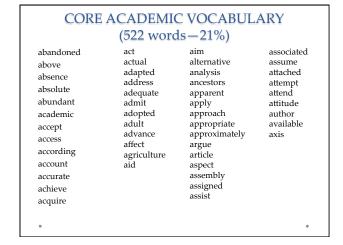
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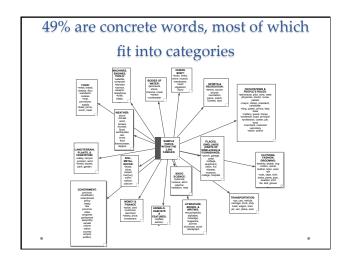
Most words are in the core vocabulary because they are versatile. They are versatile in:

- o Meaning
- o Part of speech
- Use in idioms (literary)
- Use in complex phrases (content areas)

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4.2	Meanings	Compound words	Complex phrase	Collocations	U	D
active	adjective: always doing things o involved in an organization/ activity by doing things for it o working in the expected way noun othe active (voice)		active volcano active verb	active member of the Republication Party active in the Democratic party active in the Democratic party active seniors	56	0.90
atmosphere	noun: ofeeling that an event/place gives you ophysics: mixture of gases that surrounds Earth or another planet othe air in a room		atmospheric pressure	a (smoky, hostile) atmosphere	50	0.64
battle	noun: a fight between two armies or groups situation where people compete/argue with each other o an attempt to stop something verb oto try hard to achieve something	battlefield battleship battleground	legal battle	in battle the battle for (control of the Senate) losing battle battle against (cancer)	53	0.74
chain	noun oseries of metal rings ogroup of stores, hotels owned by same company oseries of related events oseries of similar things in a line verb ouse a chain to fasten one thing to another	chainsaw chainsmoke	bicycle chain chain of events mountain chain chain of command chain reaction chain letter chain store	a chain of (islands, mountain chained to (a fence)	47	0.86





able amount about THE GLUE WORDS: ancient add and Approximately 310 words: after answer * not on Core Academic List again any * abstract against are * occur 100+ times per million as age * 55% have four letters or less ask ago at all away almost along also always Among

The vast majority of students can recognize most of the words in a grade-level text....eventually.

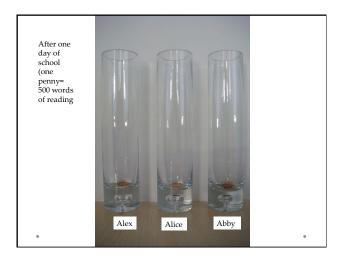
DIBELS Data For 4th Graders Comprehension Percentile 10 80 95 21 30 109 97 32 41 50 128 98 70 147 99 50 100 90 176 67 212 94

Proficient reading results from substantial amounts of reading.

 1,200 hours of school time per year: In some classrooms, 4th graders read about 2% of this time

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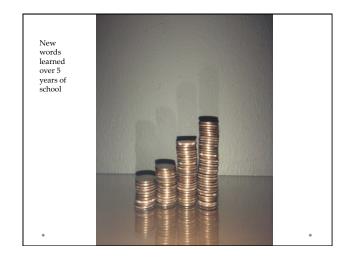


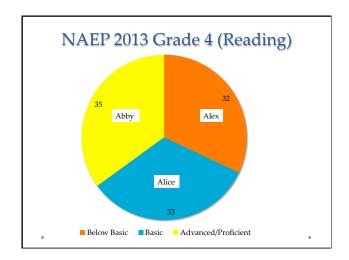


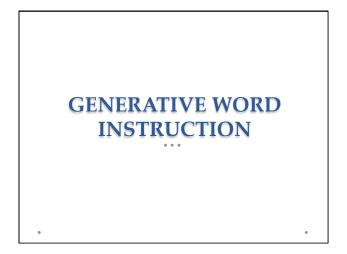


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Generative Word Strategy #1:

 Teach students to anticipate that complex texts will have many new words and that their generative word knowledge will assist them in figuring out new words.

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Making Challenge Explicit

Amelia Earhart rusty **Earhart** stunt exhibition, aviation.

Generative Word Strategy #2

• Expose students to many new topics and the vocabulary associated with those topics, including "stories" about how words work and their histories.

Bird Nests



Most birds build nests, but all nests are not alike. The most common bird nest is the kind made by robins. Robins build nests that look like cups. They make a frame of twigs and sticks and cover it with mud. When this is done, robins line their nest with fine moss, feathers, and hair they find on the ground. Most birds build find on the ground. Barn swallows build nests of mud.

They make them in barns, close to the roof where it is safe. Sometimes several swallows build nests near one

sale. Sometimes several sometimes another.

Some birds build their nests in unusual ways. All birds use their beaks to help make their nests, but Tailorbirds use their beak as a needle to sew leaves together. Tailorbirds use threads they gather from the cotton in cotton plants.

Some birds don't build nests at all. Some lay their substant the wound or on a rocky cliff. Auks are

eggs right on the ground or on a rocky cliff. Auks are birds that lay their eggs on rocky cliffs near the sea.

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Auks' eggs are pointed at one end. This shape lets the eggs roll in a circle if another animal tries to move them or if the wind blows hard. Because the eggs can roll in a circle, they do not roll off the cliff.

King penguins also do not build nests. Instead, they tuck their eggs into the folds of skin on their lower belly. The eggs rest on their feet and stay warm in the cold arctic winds.

Some bird species also lay their eggs in the nests of other birds. Cuckoos get other birds to keep their eggs safe and to feed their bables.

Most birds build a new nest each year, Some use the same nest for several years but clean the nest a little each war. Eagles build huge platform nests that they use for

year. Eagles build huge platform nests that they use for several years. However different they are, though, birds build nests



Putting Two Words Together



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

they are great with spaghetti.

Eyesballs help in playing sports. But there isn't a sport called cyelabl where teams throw and catch cyeballs. You wouldn't want to be in a game that uses fireballs. You would verse as fireball, us bould get as far away as fast as you can. Then call 911 right away. You should also watch out if a cannoballs legging to be fired. It is round but you don't want to play with a cannomball. You they have the work of the play with a cannomball. You they have the work of the play with a cannomball is good to be come works, though, that have hall in them but it has nothing to do with round. Ballpoint pens make

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A Birthday Wish: Rachel Beckwith



In the summer of 2011, Rachel Beckwith had just finished third grade. She was looking forward to riding her bike and playing games

cing. Then she heard

who did not have clear water to drink. The person was from an organization called charitywater.org, a charity tha builds wells for towns in Africa. The wells provide people with clean water. Without wells, people often have to walk many miles to find water, then carry it home in buckets. Often, the water is not clean.

water is not clean.

Instead of presents for her ninth birthday, Rachel asked her family and friends to donate 99 for clean water in Africa to charitywater.org. If she could raise \$300, 15 people could get clean drinking water.

By the time her birthday came, Rachel had raised \$220. That meant that 11 people could get clean water.



She told her mom that she would try harder the next year to raise more money for the charity.

A month later, Rachel was critically injured in a car accident. On July 32, 2011, she was taken off life support. She tied soon after.

In her honor, one village put up a sign that reads,

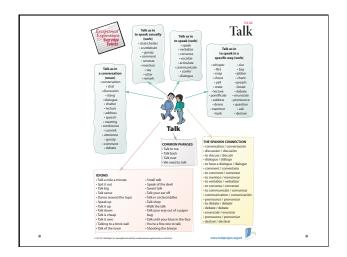
Rachel's great dream, kindness, and vision of a better world will live with and among us forever. Clearly, one person, even a child, can make a difference.

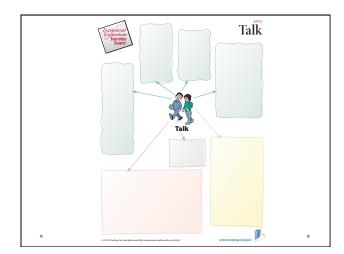


Generative Word Strategy #3:

Teach students about the multiple uses of many words.

- Multiple meanings
- Multiple parts of speech
- Multiple uses in phrases and idioms



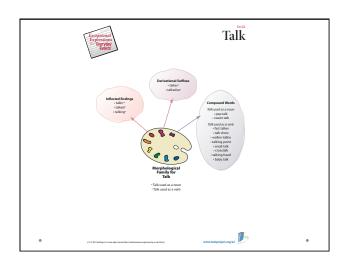


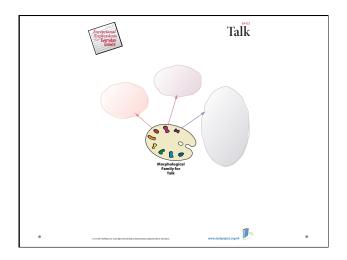
Generative Word Strategy #4:

Teach students words in families, not just single words.

 Attend to compounding as well as inflected endings (i.e., ed, ing, s, 's', er, est) and derivatives (i.e., prefixes and suffixes)

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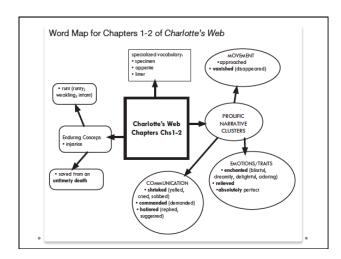






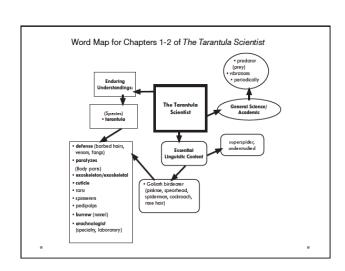
Generative Word Strategy #5

 Teach students about the rich networks of similar-meaning words from which authors of narratives choose words for traits/attributes, emotions, motion, and communication.



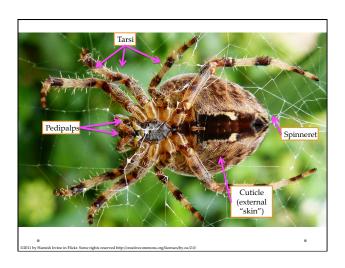
Generative Word Strategy #6

 With the vocabulary of informational texts, teach students about relationships among concepts of critical topics



Generative Word Strategy #7

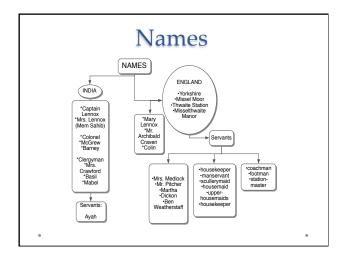
 When appropriate, introduce new concepts with pictures and illustrations.





Finally: Vocabulary in the context of culture

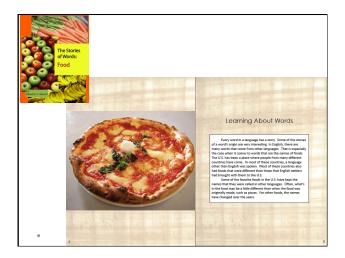
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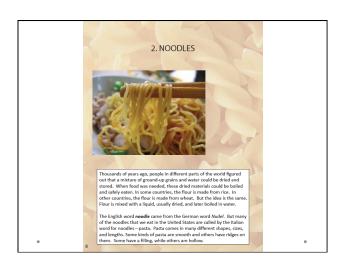


Dialect & Words from Other Languages

- "Well enow. Th' carriage is waitin' outside for thee." (The Secret Garden)
- "Booni!" Nokomis scolded. "Leave it alone!" (The Birchbark House—Ojibwa language)
- In the evening, Aaron, Miriam, and Anna played dreidel. Zlateh sat near the stove watching the children and the flickering of the Hanukkah candles. (Zlateh the Great)

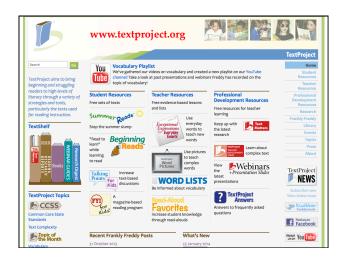
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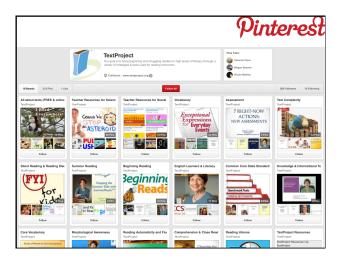




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Instruction by E.H. Hiebert & P. D. Pearson:
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SUMMARY				
Word Facts	Generative Word Strategies			
1. More rare words in texts than talk.	1. Teach students to expect new words in texts.			
2. Many more English words than school time.	2. Expose students to many topics & use of context			
3. Small group of words does heavy lifting in text.	3. Teach multiple uses of words.			
4. Words are part of families.	4. Teach words in families.			
5. Networks in narratives are sets of synonyms.	5. Teach networks of similar- meaning words in stories.			
6. Networks in informational texts are topical.	6. Teach networks of concepts in topics.			
7. Concrete words are learned faster than abstract ones.	7. When possible, teach new concepts with pictures.			