


The Role of Vocabulary in Decoding and Comprehension

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TextProject



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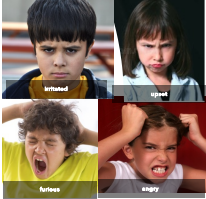


pleasant



boisterous

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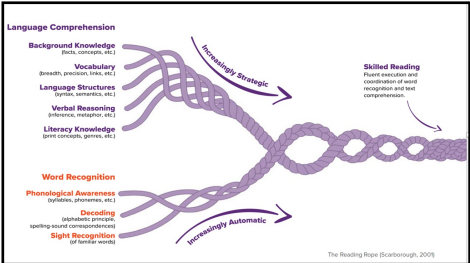


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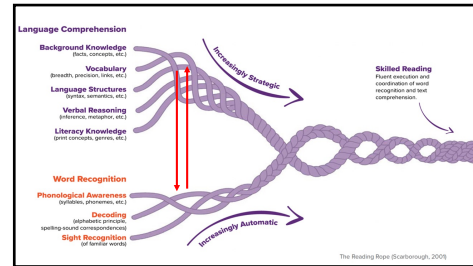
What we know about....

- I. role of vocabulary in proficient reading
- II. nature of English vocabulary
- III. effective vocabulary instruction

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Vocabulary and Decoding

- ★ Knowledge of words (i.e., familiarity) is a strong predictor of children's word recognition (Kim et al., 2016; Nation & Snowling, 2004). Oral vocabulary is related to word recognition through phonology and semantic representation (Ouellette 2006; Senechal et al., 2008).
- ★ Students who were taught letter-sound correspondences and engaged in reading texts with target words outperformed students who were in the letter-sound correspondence group only (Savage et al., 2018).

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Vocabulary and Fluency

- ★ As ratio of challenging words increases, students' reading rates decrease. For students with less advanced reading skill and/or in earlier grade levels/ ages, the negative relationship between text difficulty and reading rate is especially strong (Amendum et al., 2017).
- ★ While reading rate predicted 18% of the variance in comprehension, academic vocabulary predicted an additional 22.9% for a total of 40.9% of explained variance (Paige & Smith, 2018).

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Vocabulary & Comprehension

- ★ Vocabulary knowledge is positively associated with reading comprehension at every stage of reading development (Cortney & Azevedo, 2007; Wagner & Padgugli, 2009) and a longitudinal predictor of reading growth (Cunningham & Stanovich, 1997).
- ★ Background knowledge is the strongest predictor of readers' comprehension (Ahmed et al., 2016).
- ★ Much of the background knowledge that is critical to comprehension is learned from text (Smith et al., 2021).

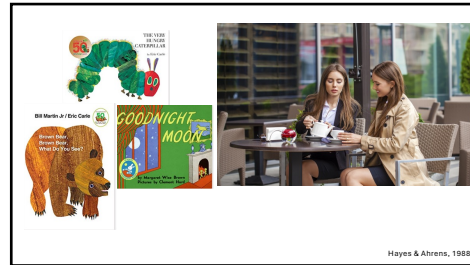
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II. What we know about the nature of English vocabulary

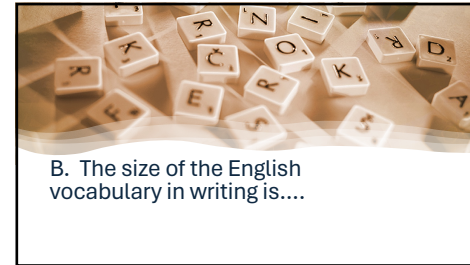
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A. The vocabulary of texts is more complex than vocabulary of typical conversations.

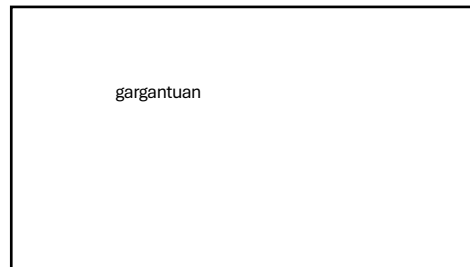
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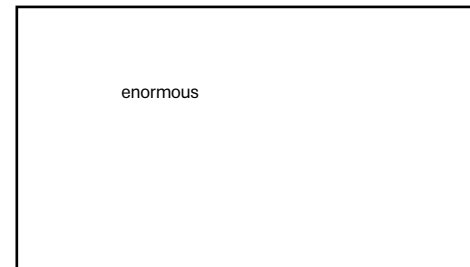
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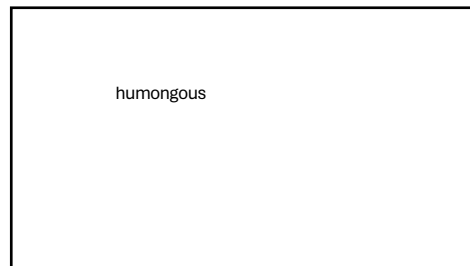
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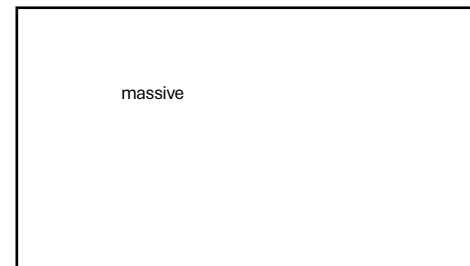
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immense

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monumental

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colossal

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...especially in written language



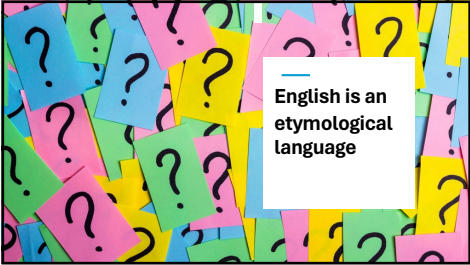
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Oxford Unabridged Dictionary

- 282,500 root or head words
- 326,000 derivatives & phrases
- 47,150 obsolete words

And this doesn't include the multiple meanings of words.

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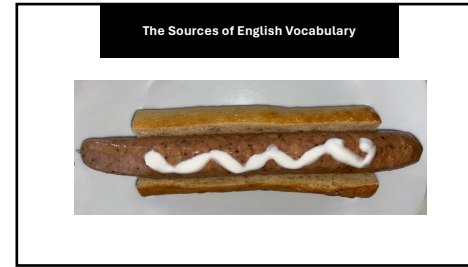


English is an etymological language

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Contributions of English's Language Layers to Semantics

Anglo-Saxon	French/Latin	Greek
king	regent	monarch
flash	realization	epiphany
wreck	disaster	catastrophe

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Contributions of English's Language Layers to Morphology

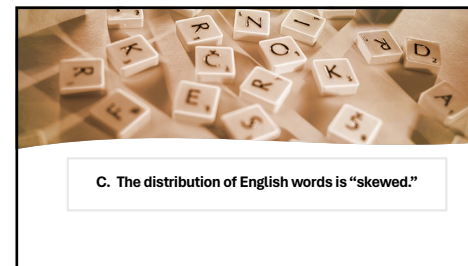
Morphological Form	Anglo-Saxon	French/Latin	Greek
Affixes	un-: unhappy -ness: happiness	de-: deactivate -tion: action	a-: atypical -ism: capitalism
Inflected endings	walked, walks, walking	alumnus/alumni algae/algae	crisis/crises criterion/criteria
Compounding/ Complex phrases	homework, cowboy	weather patterns food chain	telephone, microscope

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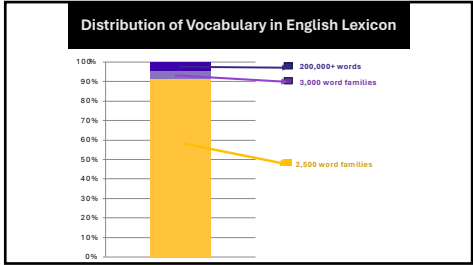
Contributions of English's Language Layers to Grapheme-Phoneme Correspondences

Types of Grapheme-Phoneme Correspondences	Anglo-Saxon	French/Latin	Greek
Two adjacent vowels with a single phoneme	meet, team	ou (each pronounced differently): cough, though, through, bough	eu: euphonia
Final e	bite, hope	serve, dance	
Consonants	gh: rough	ch: chef, chalet, champagne	ph /f/: philosophy
Unique	wa: water, wash, watch	eau: bureau	y as a medial vowel: myth

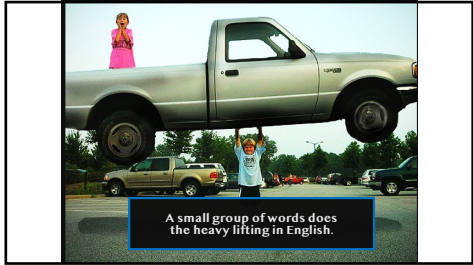
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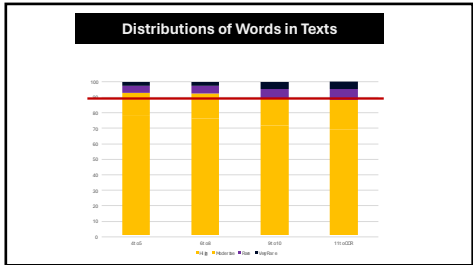
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Word Zone	Examples of Words
1st-100	the, by, through
101-300	long, great, family
301-1,000	power, strong, answer
1,001-1,500	valley, imagine, motion
1,501-2,000	responsible, presence, trail
2001-2,500	discovery, civilization, assume

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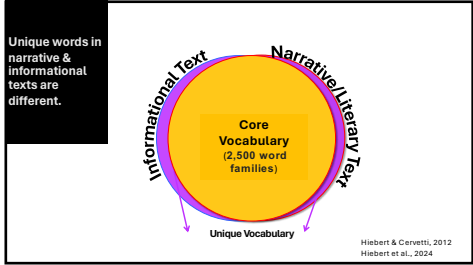
Texts on Standards-Based Assessments (WI Forward)

GRADE 3
 One rainy day, two shop owners named Leo and Pablo opened their shop doors to begin the day's business. They each stood in front of their stores, wishing for customers. Sadly, the wet weather had chased all the townspeople inside. Leo and Pablo looked down the cobblestone street. "Rainy days are bad for business," Pablo responded. He always tried to find a positive side in every situation. Before Leo could reply, she noticed a dog. The wet animal was down the street towards them.

GRADE 5
 Just as Trevon was putting on his running shoes, his twin brother woke up. Leo sat up in bed, looked at the clock, and "Morning, Leo," Trevon said. "Want to join me for a morning run?" Leo looked "no" and Leo ran out of the room, most likely in search of a bowl of cereal. Trevon shook his head. He and Leo may have shared the same birthday and the same red hair, but that was where the similarities seemed to end. "You do remember that we're running a race this weekend, right?" Trevon asked as he walked through the kitchen.

GRADE 7
 Leo saw a sign of interest in her sisters' eyes. "This might be our only opportunity to go on a vacation this summer!" Maya stated. "Plus, there are so many things here in the city that we've never done!" Maya's sisters looked at each other and nodded, seeming to agree to find the sign of the city. A few minutes later, the three sisters were presenting their ideas to their parents. Of course, Maya held up the advertisement for everyone to see, smiling at the fact that there wasn't anything like about it anymore.

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Narrative : *The Storyteller's Candle*

The children rehearsed the play, the dances, and the stories. Don Ramon donated boxes and crates from his bodega to make the decorations. The mothers from El Barrio met at church or the library to paint, cut, and paste.

Finally, by the evening of January 5th, the library was ready for Three Kings' Day.

The next day, everyone came from far and near. Outside, the snow was rising high. Inside the library, the logs burned in an open fireplace and the storyteller's candle flickered. The room bubbled with the voices of children and adults. Everyone spoke at once, in Spanish and in English.

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Informational : *Energy Island*

Renewable energy comes from resources that will never run out, or that can be replaced. For example, wind is a renewable resource, since the wind will always blow. Windmills were invented to catch that energy.

Rivers keep flowing all year, so they are also a source of renewable energy. People have been using dams, water mills, and other means of harnessing waterpower for thousands of years.

Sunlight, which can be converted into solar power, is another example of a renewable resource, and so are the plants and trees that can be harvested and converted into biofuels and then replanted.

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III. What we know about effective vocabulary instruction

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•1. Read extensively in texts that support knowledge acquisition but also automaticity of the core vocabulary

• Seidenberg (2017) does not mention "decodable text" in *Language at the speed of sight* but he does describe the amount of data required to learn to read:

"Readers become orthographic experts by absorbing a lot of data, which is one reason why the sheer amount and variety of texts that children read is important...Major statistical patterns emerge as the child encounters a larger sample of words... We don't study orthographic patterns in order to be able to read; we gain orthographic expertise by reading." (p. 92) [italics added]

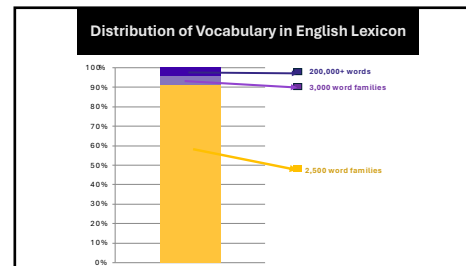
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Words that occur 12-13 times/million words of G4 text:
fiber, dense, nutrition

Minutes Read Daily	Words Read Daily	Total Words Read Over School Year	Predicted exposure to Word-Zone Critical Words
8	738	132,840	1.7
12	1,104	198,720	2.6
16	1,472	264,960	3.4
20	1,840	331,200	4.3

(Seidenberg & MacDonald, 2018)

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Texts for Beginners
(open-access @textproject.org)

Hot Pigs

The pig gets red!
The pig has a sunburn!
Yes, pigs can get sunburns.

TopioReads

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Hot Pigs:
Some pigs sit in the sun.
They sit and sit.
The pig falls asleep.
The pig gets hot.
The pig gets too hot.
The pig gets red!
The pig has a sunburn!
Yes, pigs can get sunburns.

Cool Pigs:
A hot pig sits in the mud.
The mud is cool.
A hot pig swims in water.
The water is cool.
It is too hot!
So, a pig swims in water.
And a bird has a ride on the pig!

Pig nests:
Pigs make nests.
They make nests with sticks.
Pigs put grass in nests too.
The grass makes the nest soft.
A little pig is called a piglet.
The piglets rest in a nest.

Pig Tricks:
Can you ask a pig to do a trick?
Yes, you can ask a pig to sit.
You can ask a pig to jump.
The pig will jump.
Yes, you can ask a pig to do tricks.
But pigs need you to learn the tricks.

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Texts for Middle Grades
(open-access @textproject.org)

Comics & Cartoons

Computer Animation

TopioReads

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Comics:
American comic strips first appeared in New York City at the end of the 19th century. In that time, a newspaper called the Yellow Kid began publishing a comic strip called The Yellow Kid, which many people think was the first comic strip in the world. The Yellow Kid comic strip became the country's most covered with yellow ink. The Yellow Kid had speech balloons that showed the words people spoke. Soon, other comic strips began to use speech balloons, or balloons, as they are also called.

Cartoon:
Cartoon comic strips, many with speech balloons, are found in newspapers across the country. On Sundays, the color comics are one of the most popular sections. In addition, the Sunday cartoon comics are usually larger and more colorful than the daily comics.

Anime:
In Japan, people of all ages read anime and watch it on TV and in movies. Anime is the new style of art used in comic books. The anime that people read and watch in the United States often feature children and imagine a world that uses bright colors.

Comic strip:
Comic strips were first created, their stories have grown up. Although Japanese viewers still love the anime style of anime, they now have stories that feature adults. Many anime comic strips, and TV shows are still created for children, but now there are anime for adults and teenagers, too. Some anime also includes lighting and imaginary worlds. In addition, anime movies are being made of classic Japanese films.

Original Comics:
Although they don't look like comics, they also don't look like comic books. Original comics, which look like a mixture of comic and novels, are an art form that is a mixture of fiction and art. Original comics tell the same, because they have drawings and tell stories. However, they are different from comics because they tell longer stories that are more like those told in novels. Also like novels, they may have many characters and plot with many parts.

Graphic Novels:
Both anime and anime enjoy graphic novels' strong drawings and stories. In addition, graphic novels feature many different subjects. Some graphic novels are about World War II. Some are about science or science fiction. Others write stories that make readers laugh. Graphic novels today appeal to a growing number of readers.

Computer Animation:
Before computers, hundreds of artists spent years carefully drawing frame after frame to make an animated film. Every second of film needed to be drawn. A few artists could draw and draw drawings.

Computer Animation:
Today, most animated films are drawn on computers. Computer animation can look almost as real as life. The animals seem to move and breathe, even though they are not. The people look more real, too, even though they can stretch like clay. Some films also combine the picture and animation with computer-generated characters.

The Toy Story:
The Toy Story, which was first shown in, was the first full-length computer animated film, and it was very popular. Today, many artists who once drew each frame by hand now create cartoons with computer animation.

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Texts for Middle & High School
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TeenReads

#FurBaby
Paws for Applause
Spirit of the Bear

Spirit of the Bear

TopioReads

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Fur Babies

Have you ever heard of fur babies? They may not be what you picture when you think of a baby. In the past few years, it has become a hot trend to own a fur baby. This is true for more than ever.

Who Are Fur Babies? Fur babies are pets that people treat like their own children. They can be furry friends like dogs, cats, rabbits, and even snakes. These pets become a big part of their owners' lives. The term "fur babies" is a way to show how much these pets mean to their owners, just like a human baby means to their parents.

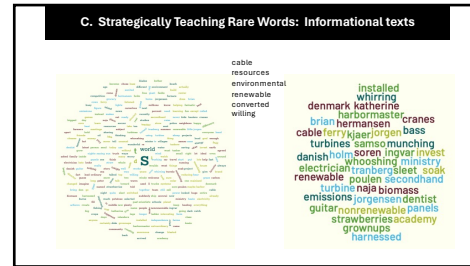
Why Are Fur Babies So Trendy?
A fur baby can bring joy, comfort, and friendship. That is one reason they are a trend. Many teens turn to their furry friends during hard times. Fur babies can listen without judging and can offer love without strings. A study found that, if you interact with your pet on social media, it can have a positive impact on your well-being. You are more likely to have less stress.

Why Are Fur Babies Popular?
Some people get it in the time of social media. There like to share fun pictures of their fur babies. These posts often go viral. Then, these pets gain fame online. People follow them to see how they live. Some people get it in the time of social media. There like to share fun pictures of their fur babies. These posts often go viral. Then, these pets gain fame online. People follow them to see how they live.

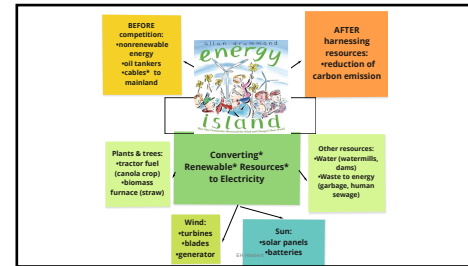
How to Add Fur to Your Life:
A fur baby can also teach a sense of duty. If you own one, you have to make sure it's fed. You have to take care of it. It must get check-ups from the vet. It's a big job. Just like real babies, fur babies need lots of care. They have feelings and need love. Teens can learn about the needs of the pet they want. Then, they can make sure they are giving them a loving home.

In sum, the trend of fur babies is all about love, friendship, and caring. Fur babies have become a big part of many teens' lives. They can bring joy and comfort in a world that can feel like too much of a mess. As long as people treat their fur babies with care and love, the trend will continue to bring warmth to hearts.

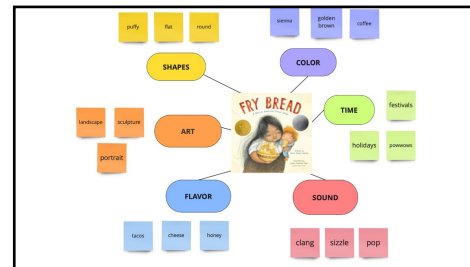
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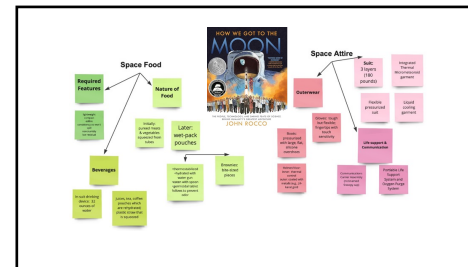
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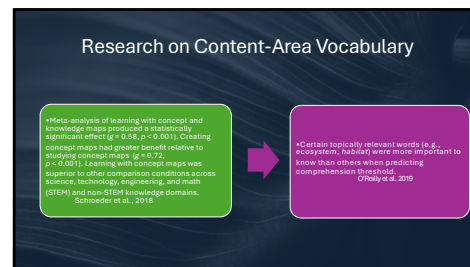
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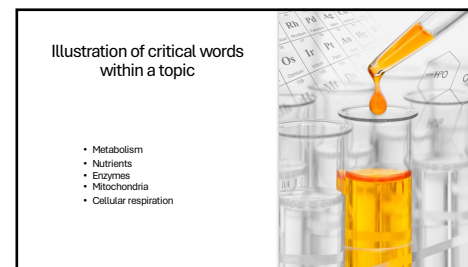
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Select/Design engaging texts on the topic

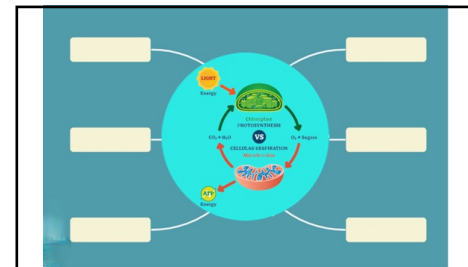
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respiration carbon dioxide
oxygen glucose
mitochondria energy
cell

- Cellular _____ is like a tiny power plant inside our cells that makes energy.
- The _____ are the parts of the cell where energy is made.
- We breathe in _____ which our cells use to create energy.
- When our cells make energy, they produce _____ that we breathe out.
- _____ from our food is broken down to release energy for our bodies.
- Cellular respiration happens in every _____ in our body, helping us stay active.

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<https://roar.stanford.edu>

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Summary

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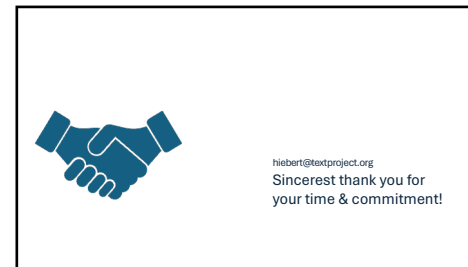
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hiebert@textproject.org
Sincerest thank you for
your time & commitment!

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