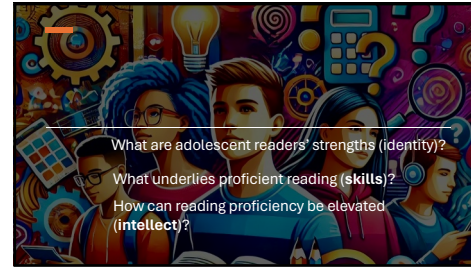
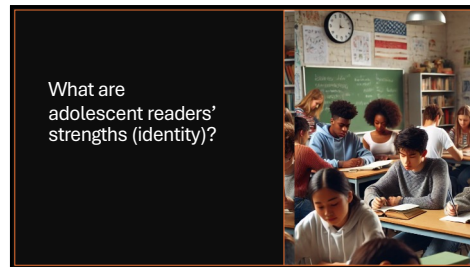


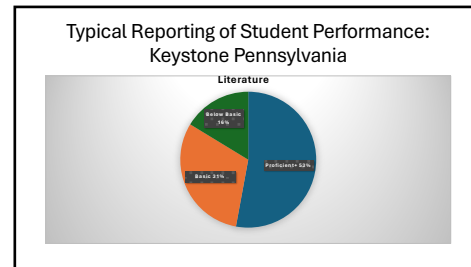
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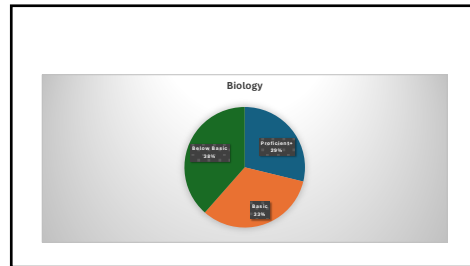
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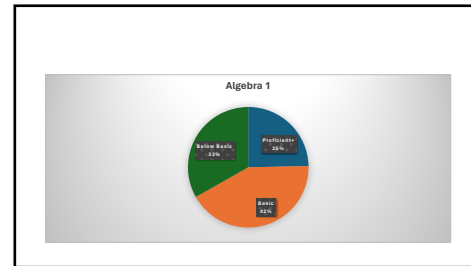
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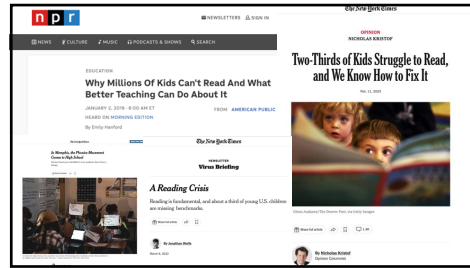
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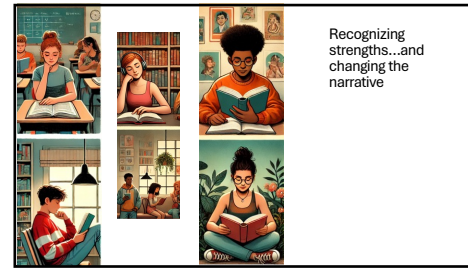
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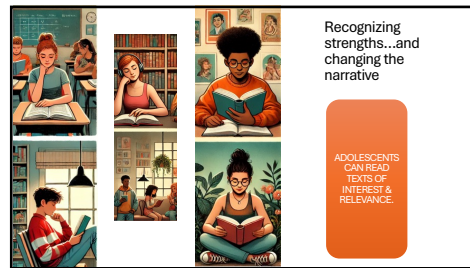


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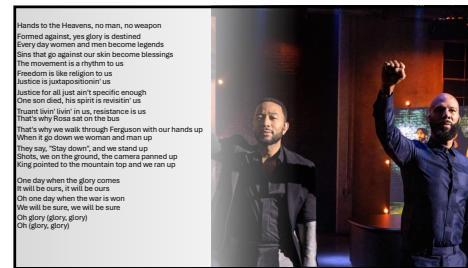


Recognizing strengths...and changing the narrative

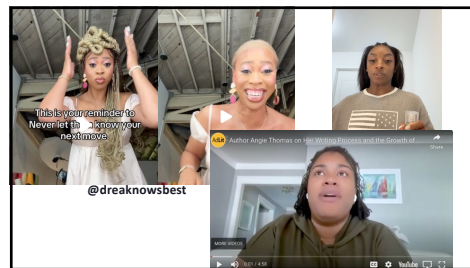
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11



12



Recognizing strengths...and changing the narrative

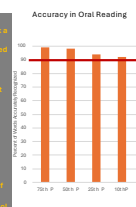
ADOLESCENTS ARE ABLE TO READ WORKS IN GRADE-LEVEL TEXTS.

13

What can students read?


PSSA Gr8

Accuracy in Oral Reading



DIBELS (6th Grade) Spring

14



Recognizing strengths...and changing the narrative

THE TEXTS OF SILENT READING ASSESSMENTS ARE AT BEST...DIOCHSYNRATIC.

15

Keystone Literature (2023): 213 Myrtle Street

The house at 213 Myrtle Street wore an enchantment that could **obscure** it when it so desired. This was a handy skill, particularly when salesmen roved the streets or teenagers **skulked** about after dark, eggs in hand. Now there was a **realtor** at the gate. The smell of **dozens** of strange, foreign houses clung to her clothes.

The house **ached** in its abandonment. Mrs. Leech was gone. A stranger had to lock the door behind Mrs. Leech when she last left the house, still asleep as she was rolled along on a strange wheeled bed. They shared a comfortable existence together, woman and house. Mrs. Leech had been a mere slip of a girl when her family moved into 213 Myrtle, the place still ripe with fresh paint and cut lumber.

Her parents left, then her husband, but Mrs. Leech stayed. Her bones **creaked** along with the settling of the pipes at night.

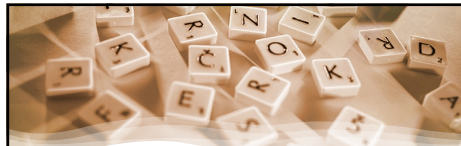
The house did not want a new owner. It did not like the thought of **condemnation** and rot, either. Mrs. Leech just needed to come home. The porch needed sweeping. Therefore, when the **pastor** arrived, 213 Myrtle Street hid. [NOTE: 20% of Text]

16

What underlies proficient reading (skills)?



17



A. The size of the English vocabulary is gargantuan, enormous, humongous....especially in writing.

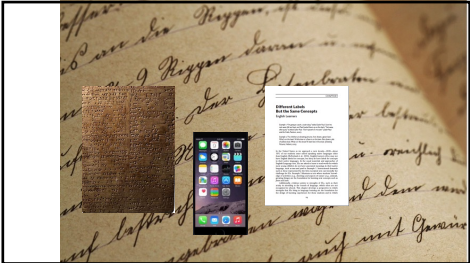
18

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.

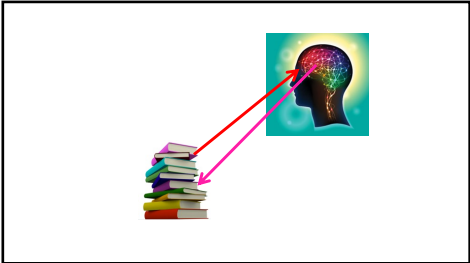
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21



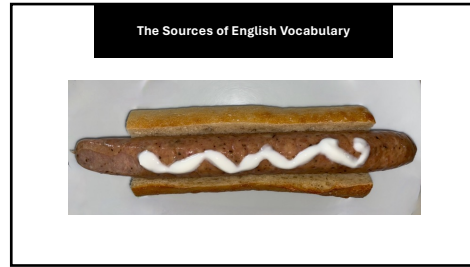
22

B. In addition to being an alphabetic language, English is a morphological language. For every word you learn, there are typically at least several words that share the root word.

23



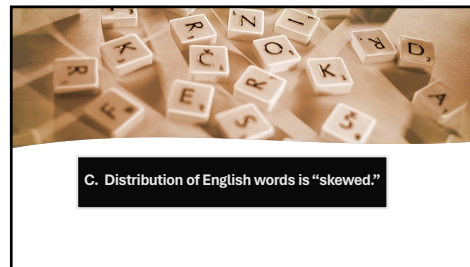
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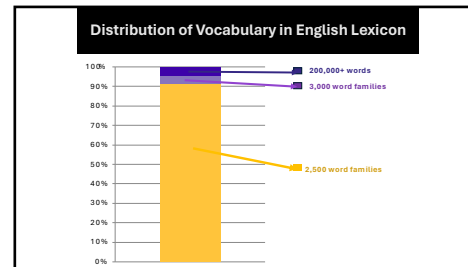
25

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

26



27



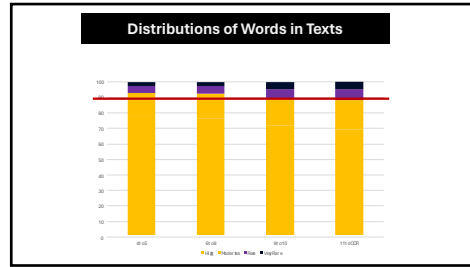
28



29

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
2,001-2,500	discovery, civilization, assume

30



31

PSSA 6 th Language Arts	PSSA 8 th Language Arts	Keystone English
<p>"Keep your eyes open," my dad said. "For what?" I asked. "Birds and higglers," and . . ." he pointed, "primary of Everglades, I looked out the car window. I realized we were surrounded by the "River of Grass" we'd read about. Next to the road was a sign that said "Panther Crossing." The Florida panther is an endangered species. There are fewer than 80 panthers left in the Everglades. I kept my eyes open, and was I ever amazed by what I saw that day in the Everglades! First Stop: Swamp walk. The boardwalk wandered through a forest of cypresses and palm trees. In one tree, two baby hatched owls.</p>	<p>Arachne, the wonderful girl weaver of Greece, took a roll of white wool in her skilled hands and separated it into long white threads. Then she carried it until it was as soft and light as a cloud. She was at work out of doors in a green forest, and her loom was set up under an old oak tree with the sunlight shining down between the leaves to brighten the pattern that she set up on it. In and out the chirps. Now without stopping until she had woven at least a fair piece of fabric. Then Arachne threaded a needle with wool dyed in rainbow colors.</p>	<p>The house at 213 Myrtle Street was an enchantment that could obscure. It was a handy skill, particularly when balconies roved the streets or teenagers skulked about after dark, eggs in hand. Now there was a realtor at the gate. The smell of dozens of strange, foreign houses clinging to her clothes. The house ached in its abandonment. Mrs. Leech was gone. A strange bird to knock the door behind Mrs. Leech when she last left the house, still asleep as she was rolled along on a strange wheeled bed. They shared a comfortable existence together, woman and house.</p>

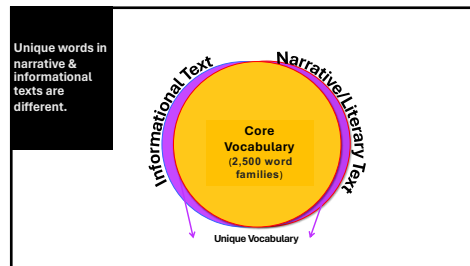
32

PSSA 6 th Science	PSSA 8 th Science	Keystone Biology
<p>in fish that live and reproduce in cold streams and lakes in the United States. Decontamination involves lines that provide shade over the areas where the brook trout live. This can cause the water temperature to increase. How would this change in water temperature most likely affect the brook trout? A. Brook trout farmers would stay the same because the fish change their genes to stay cool in the warmer water. B. Brook trout farmers would stay the same because the fish change their behavior to stay cool in the warmer water. C. Brook trout would increase in number because the temperature would become more comfortable for the fish. D. Brook trout would decrease in number because the temperature would become more uncomfortable.</p>	<p>In England, before the industrial revolution, peppered moths were mainly white with black speckles but a small group within the population had a genetic mutation that caused them to appear dark gray. After industrialization, the increase in air pollution caused tree bark to darken. Eventually, the lighter-colored peppered moths became less common than the dark-gray moths. Part A: Identify one possible advantage dark-gray peppered moths had over the lighter-colored moths after the industrial revolution. Part B: Predict what will most likely happen to the population of peppered moths as pollution control measures increase in England.</p>	<p>Hummingbirds are small and swift birds. Insects are their primary source of food. Their nests are often preyed upon by snakes, lizards, owls, and weasels. While adult hummingbirds are gray to red, larger birds, frogs, spiders, and praying mantises are bright-colored. Bright-colored feathers, body decorations, courtship displays, and complex calls are evidence that sexual selection has played a part in hummingbird evolution. Which factor would most likely contribute to the development of new hummingbird species? A. Having the ability to hibernate during a common ancestor. B. Having a high rate of metabolism. C. Having different courtship displays. D. Having a food chain that describes how energy flows in an urban ecosystem that includes hummingbirds, oak-hummingbirds, insects, plants, cats, insects, hummingbirds, birds, plants.</p>

33

PSSA Grade 4 Mathematics	PSSA Grade 8 Mathematics	Keystone Algebra 1
<p>of people in his city. Kevin says his product will be of the form $y = 10x + 100$ when written in standard notation. Which statement explains whether Kevin is correct? A. Kevin is correct only if $a < 10$. B. Kevin is correct only if $a = 10$. C. Kevin is not correct because the equation for standard notation powers with the same base, and $5 < 10$. D. Kevin is not correct because the equation for standard notation powers with the same base, and $5 > 10$.</p>	<p>Kevin is paying for some of his school supplies for an event at her school. She needs to buy at least 6,400 pages of paper. Between the water and paper, 800 bottles of water is 20 ounces, and each bottle of paper is 32 ounces. Laura has a budget of \$600 to buy paper. The system of equations shown below represents this situation: $20x + 32y = 6,400$ $15x + 2y = 600$ The solution to this system of equations is (400, 100). What does this solution represent? A. By buying 40 bottles of paper and 100 bottles of water, Laura will have at least 6,400 pages of paper and stay within her budget of \$600. B. By buying 40 bottles of water and 100 bottles of paper, Laura will have at least 6,400 pages of paper and stay within her budget of \$600. C. By spending \$40 on bottles of paper and \$100 on bottles of water, Laura will have at least 6,400 pages of paper and stay within her budget of \$600. D. By spending \$40 on bottles of water and \$100 on bottles of paper, Laura will have at least 6,400 pages of paper and stay within her budget of \$600.</p>	<p>of people in his city. Kevin says his product will be of the form $y = 10x + 100$ when written in standard notation. Which statement explains whether Kevin is correct? A. Kevin is correct only if $a < 10$. B. Kevin is correct only if $a = 10$. C. Kevin is not correct because the equation for standard notation powers with the same base, and $5 < 10$. D. Kevin is not correct because the equation for standard notation powers with the same base, and $5 > 10$.</p>

34



35

Narrative : 213 Myrtle Street

The house did not want a new owner. It did not like the thought of **condemnation** and rot, either. Mrs. Leech just needed to come home. The porch needed sweeping. Therefore, when the **realtor** arrived, 213 Myrtle Street hid.

The woman strode up the front walkway, heels clicking a powerful **rhythm**, and she stopped. "House, you're not going to play this game, are you?" The house was **indignant** that this person saw through its glamour so quickly. Certainly it wasn't losing its skill? 213 Myrtle waited. The woman waited, too.

The **soles** of her right shoe went tap tap tap. Finally, **grudgingly**, 213 Myrtle **acquiesced**. Its powder blue wood **varnished exterior** emerged. The front steps creaked as the **realtor** hopped up to the porch.

*213 Myrtle Street" by Beth Cato from Flash Fiction Online; from Keystone Literature Remedial Scoring Sampler, 2023-2024

36

Informational: Origin of Eukaryotic Cells

One of the most important events in the history of life was the evolution of eukaryotic cells from prokaryotic cells. Remember that eukaryotic cells have nuclei, but prokaryotic cells do not. Eukaryotic cells also have complex organelles. Virtually all eukaryotes have mitochondria, and both plants and algae also have chloroplasts.

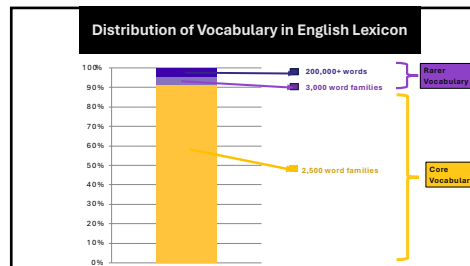
One hypothesis proposes that mitochondria evolved from endosymbiotic prokaryotes that were able to use oxygen to generate energy-rich ATP. Inside primitive eukaryotic cells, these energy-generating prokaryotes evolved into mitochondria that now power the cells of all multicellular organisms. Mitochondria enabled cells to metabolize oxygen. Without this ability, cells would have been killed by the free oxygen in the atmosphere.

37

III. How can reading proficiency be strengthened (intellect)?




38



39

A. Supporting the Core Vocabulary

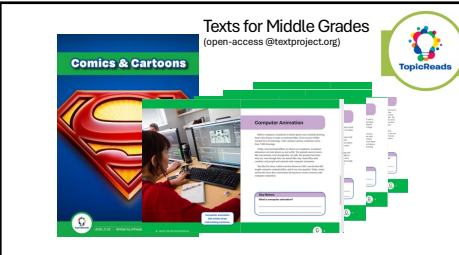
- Read interesting, informative texts with high percentages of core vocabulary



40

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

Comics & Cartoons



Computer Animation

41

Comics

American comic strips first appeared in New York City at the end of the 19th century. At that time, newspapers called their news sheets began printing a comic strip called The Yellow Kid, which many people think was the first comic strip in the United States. The children got their name because his clothes were covered with yellow ink. The Yellow Kid had speech balloons that showed the words people spoke. Soon, cartoonists began drawing printed comics, or funnies, as they are also called.

Today, comic strips, many with speech balloons, are found in newspapers across the country. On Sundays, the color comics are one of the most popular parts of the newspaper. In addition, the Sunday 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 and that was created in Japan in the 1960s. The anime that people read and watch in the United States often features children and imaginary worlds that have magic.

Since anime films and TV shows were first created, their viewers have grown up. Although Japanese viewers still love the anime style of anime, they now view anime that features adults. Many anime books, films, and TV shows are still created for children, but now there are anime like horror and sports films, too. Some anime also features fighting and imaginary worlds. In addition, anime movies are being made of classic Japanese films.

Graphic Novels

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

Both middle and adults enjoy graphic novels' strong drawings and stories. In addition, graphic novels feature many different subjects. Some graphic novels write about World War II. Some write about 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-minute cartoon could have had more than 10,000 drawings.

Today, most animated films are drawn on computers. Computer animation can look almost as real as life. The animals seem to move like real animals, even though they can talk. The people look more real, too, even though they can stretch like clay. Some films also combine real people and animals with computer animation.

The first computer-animated film, and it was very popular. Today, many artists who once drew each frame by hand now create cartoons with computer animation.

42

Texts for Middle & High School
(open access @teachmeanings.org)

#FurBaby
Paws for Applause
Spirit of the Bear

Paw

Spirit of the Bear

Why are fur babies so trendy?

Why are fur babies popular?

It's Not All Fun and Games:

43

FurBabies

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.

Why are fur babies so trendy?

Why are fur babies popular?

It's Not All Fun and Games:

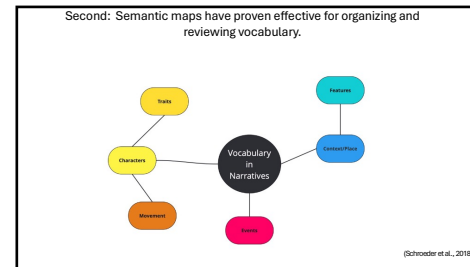
44

B. Teaching Rare Words: Narratives

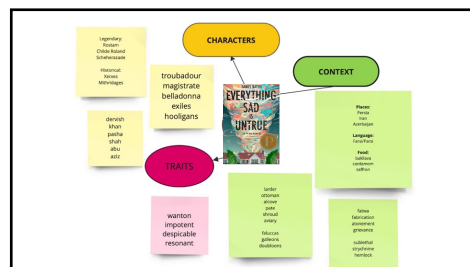
First: All critical words in narratives can't be taught before or after students. There are simply too many words, many of which appear a single time.

slender
gallant
chimed
preparations
flickered
concluded

45



46

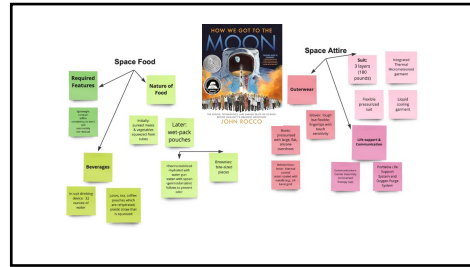


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Teaching Rare Words: Informational texts

- cable
- resources
- environmental
- renewable
- concerned
- willing
- installed
- whirring
- denmark
- katherine
- herbormaster
- cranes
- brilliant
- hermannsen
- bass
- cable
- ferry
- kjær
- ingen
- turbines
- samsø
- munching
- danish
- heli
- soren
- ingvar
- invest
- whoooshing
- ministry
- electric
- rain
- bleat
- soak
- renewable
- poulsen
- sæd
- hand
- turbine
- naja
- biomass
- emissions
- organic
- dentist
- guitar
- nonrenewable
- panels
- strawberries
- academy
- growups
- harnessed

48



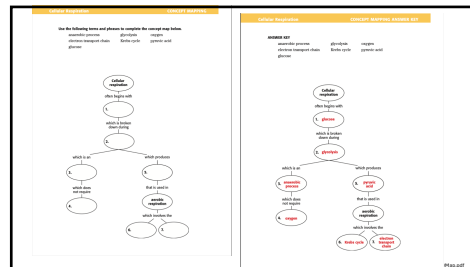
49

Vocabulary in Content Areas

"analyses indicated that certain topically relevant words (e.g., ecosystem, habitat) were more important to know than others when predicting the threshold, and these keywords could be identified using natural-language-processing techniques. Collectively, these results may help identify who is likely to have a problem comprehending information on a specific topic and, to some extent, what knowledge is likely required to comprehend information on that topic."

(O'Reilly et al., 2019)

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- **Tectonic Plates → Formation of Fissures**
- **Fissures → Pathways for Magma**
- **Foliation → Metamorphic Processes**
 - **Gneiss** [Example of a foliated metamorphic rock, often formed in regions of high tectonic activity]
- **Conglomerate Rock**: Formed from sediment deposition and can be affected by tectonic activity.

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C. Developing Stamina Through Interests & Curiosity

55

56

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Summary

ADOLLESCENT READING STRATEGIES (Skills)	COMPONENTS OF PROFICIENT READING (Skills)	ADULT READING PROFICIENCY (Skills)
<ul style="list-style-type: none"> Identify main ideas and supporting details Identify text structure Identify the author's purpose Identify the author's point of view Identify the author's bias Identify the author's tone Identify the author's style Identify the author's audience Identify the author's message Identify the author's intent Identify the author's perspective Identify the author's voice Identify the author's style Identify the author's audience Identify the author's message Identify the author's intent Identify the author's perspective Identify the author's voice 	<ul style="list-style-type: none"> Identify main ideas and supporting details Identify text structure Identify the author's purpose Identify the author's point of view Identify the author's bias Identify the author's tone Identify the author's style Identify the author's audience Identify the author's message Identify the author's intent Identify the author's perspective Identify the author's voice Identify the author's style Identify the author's audience Identify the author's message Identify the author's intent Identify the author's perspective Identify the author's voice 	<ul style="list-style-type: none"> Identify main ideas and supporting details Identify text structure Identify the author's purpose Identify the author's point of view Identify the author's bias Identify the author's tone Identify the author's style Identify the author's audience Identify the author's message Identify the author's intent Identify the author's perspective Identify the author's voice Identify the author's style Identify the author's audience Identify the author's message Identify the author's intent Identify the author's perspective Identify the author's voice

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