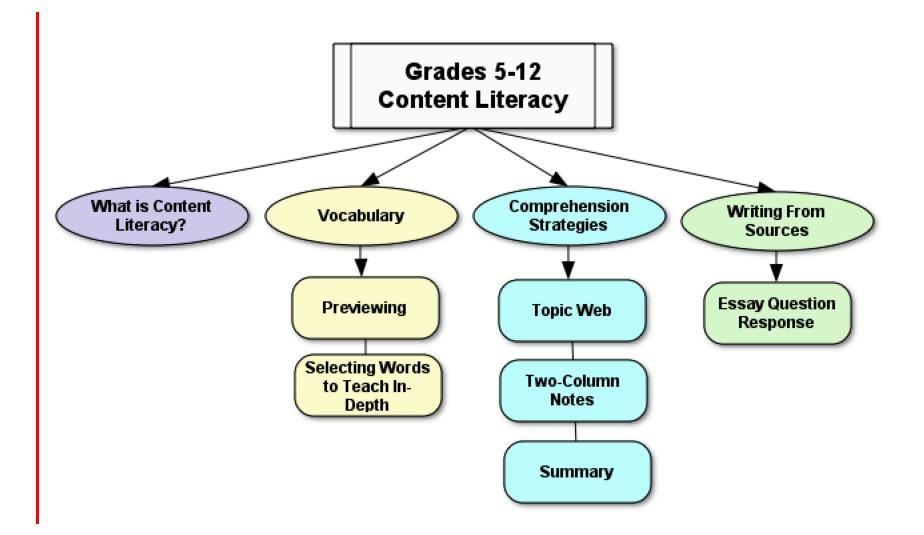


Grades 5-12 Content Literacy: Embedding Reading & Writing Instruction in All Subjects

Joan Sedita www.keystoliteracy.com

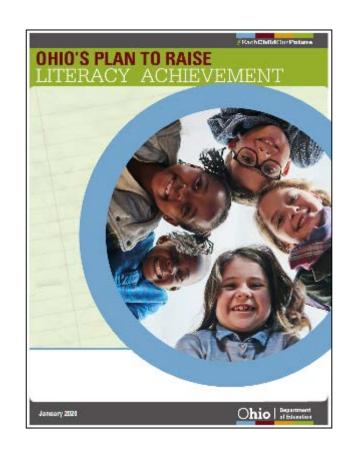


Top-Down Topic Web



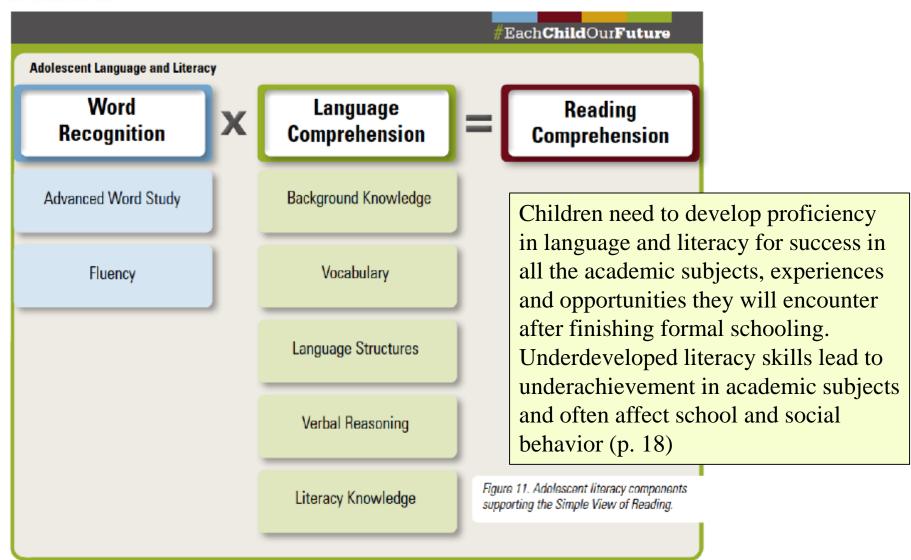
2020 Ohio Plan Revisions

- Focus on need for differentiated core instruction across MTSS aligned to S of R
- Promote collaboration among educators, such as content area teachers and intervention specialists
- Bridge gap between research, jargon & instructional practice





Ohio's Language & Literacy Vision





Content Literacy

- The above essential components must be integrated into all content areas and become the shared responsibility of all secondary educators and specialists who support learners across this grade range. This does not mean all educators become reading teachers, but that all educators differentiate instruction within their disciplines to ensure all learners have equitable opportunities to access discipline-specific text, discourse and writing.
- To meet the needs of all learners in this phase, districts and schools implement evidence-based strategies across content areas, such as explicit vocabulary instruction and extended discussion of text meaning and interpretation; provide literacy instruction and support that is discipline-specific; and provide individualized intensive intervention in reading, as needed.

(Ohio Literacy Plan p. 32)











What is content literacy?



K-4 Literacy Instruction

Phonemic

Awareness

Phonics

Fluency

Vocabulary

Comprehension

Writing

Core instruction for all students must address all five components of reading, plus writing!



For Grades 5-12 *IES Report (2008)*

Improving Advices of the Province Control of the Provi

5 recommendations:

- 1. Provide explicit vocabulary instruction
- Provide direct and explicit comprehension strategy instruction
- Provide opportunities for extended discussion of text meaning and interpretation
- Increase student motivation and engagement in literacy learning
- 5. Make available intensive and individualized interventions for struggling readers that can be provided by trained specialists



The Strands That Are Woven Into Skilled Writing

(Sedita, 2019)

Critical Thinking

- · Generating ideas, gathering information
- Writing process: organizing, drafting, writing, revising

Syntax

- · Grammar and syntactic awareness
- Sentence elaboration
- Punctuation

Text Structure

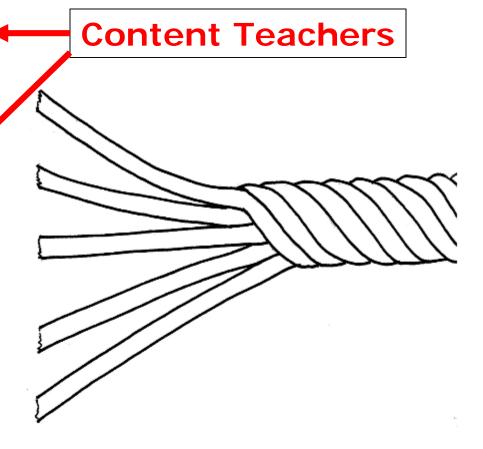
- Narrative, informational, opinion structures
- Paragraph structure
- Patterns of organization (description, sequence, cause/effect, compare/contrast, problem/solution)
- · Linking and transition words/phrases

Writing Craft

- Word choice
- Awareness of task, audience purpose
- Literary devices

Transcription

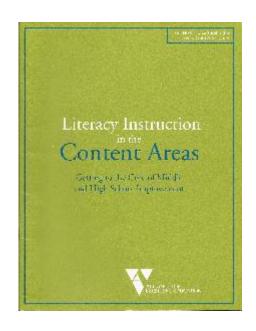
- Spelling
- Handwriting, keyboarding





in the Content Areas:

Getting to the Core of Middle and High School Improvement (2007)



What Content-Area Teachers Should Know About Adolescent Literacy

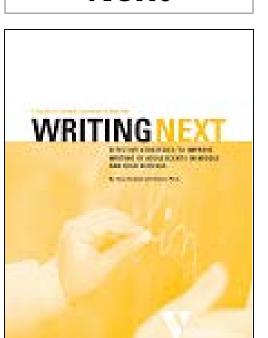
National Institute for Literacy, 2007



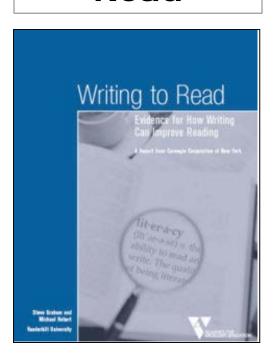


The Research Base

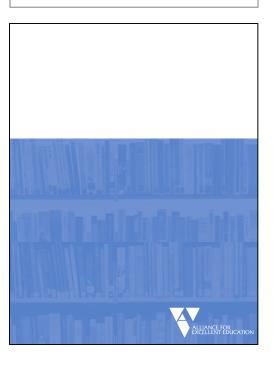
Writing Next



Writing to Read



Reading Next



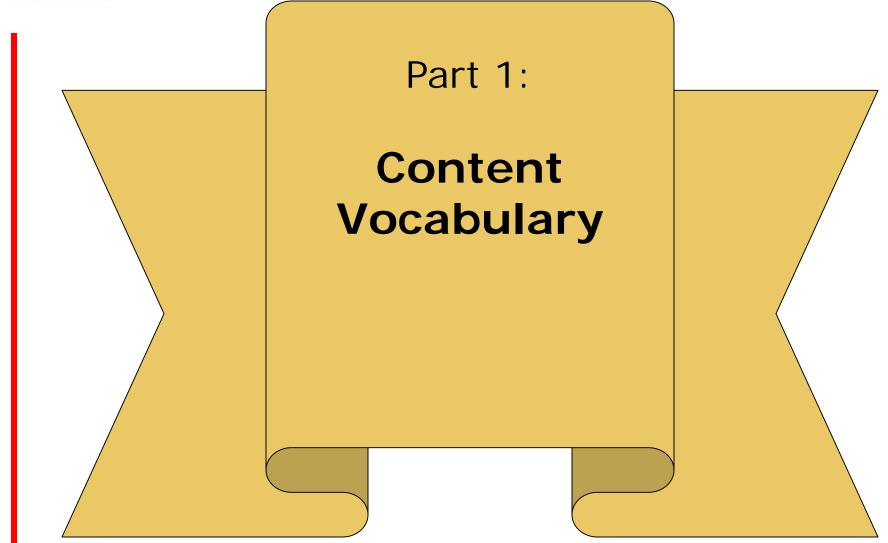
www.all4ed.org



Practice Activity: "Napping"

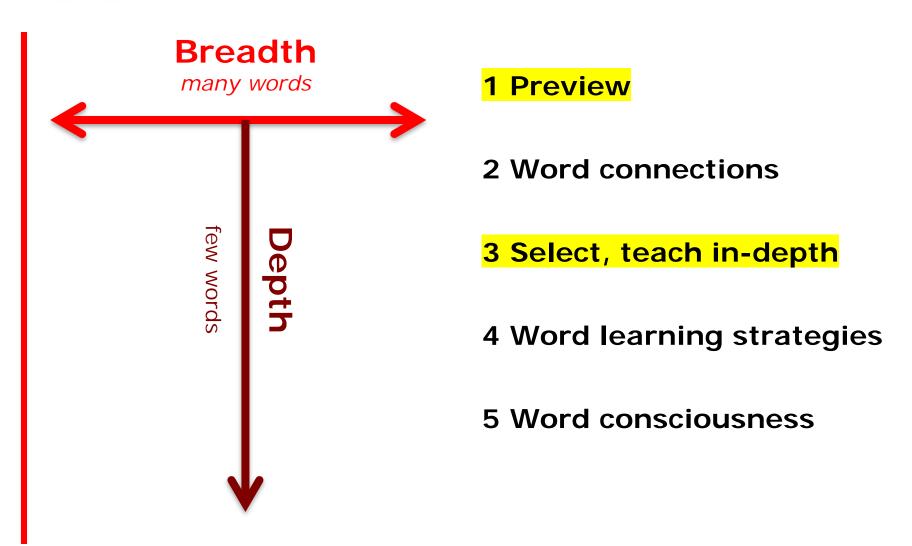
- Vocabulary tasks
 - Previewing
 - Selecting words to teach in-depth
- Comprehension strategies:
 - Topic web graphic organizer
 - Two-column notes
 - Summary
- Writing from sources
 - Essay question response







Effective Vocabulary Instruction





Why Preview Vocabulary?

- Activate prior knowledge
- Clear up misconceptions about a word's meaning
- Clarify meaning of known words with multiple meanings
- Provide some familiarity with unknown words

Previewing is more of a comprehension strategy than it is direct teaching of specific words.



Goal of Previewing

 Goal: to offer temporary, basic familiarity with the meaning of the words in text to be read

"Introduce the word so that students won't stumble over it when they see it in an upcoming passage."
(Graves, 2006)



 It is more about attaching some meaning to a new word than enabling deep learning of words.



Student Rating of Word Knowledge

- Levels of word knowledge
 - 4 Know it well, can explain it, use it
 - 3 Know something about it, can relate it to a situation
 - 2 Have seen or heard the word
 - 1 Do not know the word
- Word Knowledge Checklists
- Raise your fingers





Practice Activity

- evidence
- rousing
- Allied Powers
- Mona Lisa
- internal clock
- in sync
- alertness
- residents

- subjects
- primes
- siesta
- furthermore
- blood pressure
- waves of weary teens
- motto



Why Go Deep With Some Words?



- Previewing vocabulary is different from directly teaching specific words.
- Essential content words must be taught in-depth.
- Students with weak vocabularies especially benefit from in-depth instruction for some words.



3 Tiers of Words

Tier 1 words of everyday speech

Tier 2

general academic vocabulary

saunter, verify, escalate, redundant

Tier 3

subject-specific academic vocabulary aorta, carburetor, personification

words for in-depth instruction



Selecting Words

- Consider words that are:
 - important to the text
 - useful to know in many situations
 - uncommon in everyday spoken language but recurrent in written text
- Differentiate your choice of words based on needs of students
- Choose words yourself don't rely on reading programs or textbooks to identify words
- Spelling lists are not the same as vocabulary lists



Practice Activity

- evidence
- rousing
- **Allied Powers**
- Mona Lisa
- internal clock
- in sync
- alertness
- residents

subjects X



primes

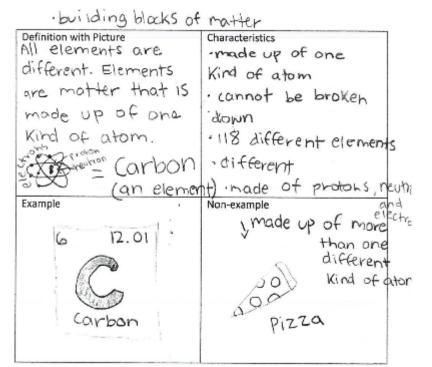


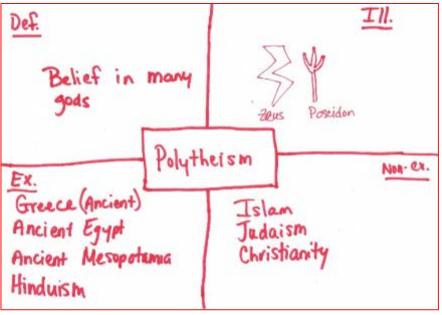
- siesta
- furthermore
- blood pressure
- waves of weary teens
- motto

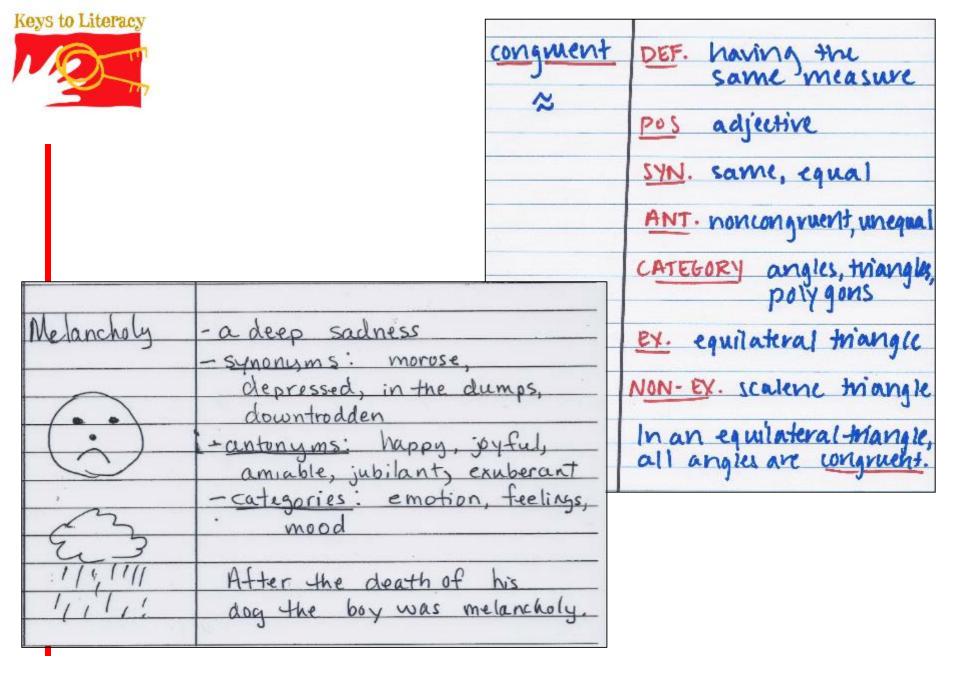


Frayer Template

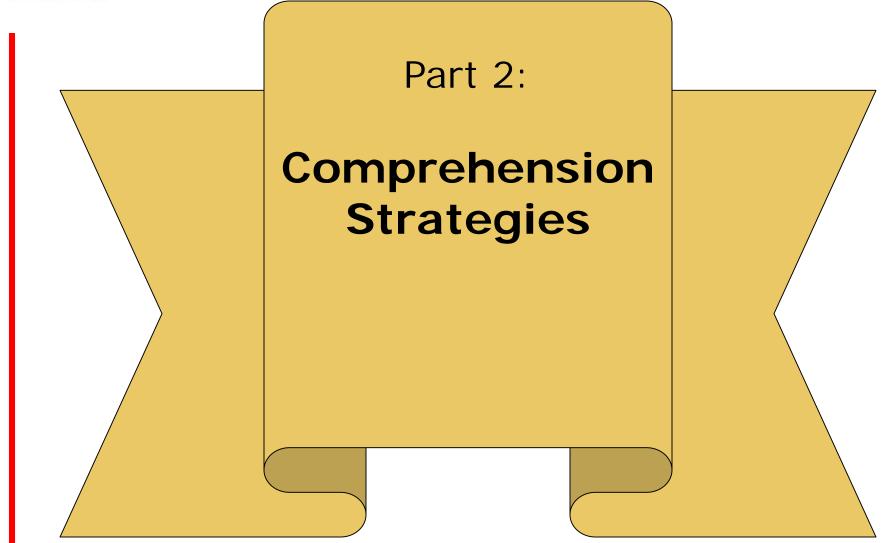
Element



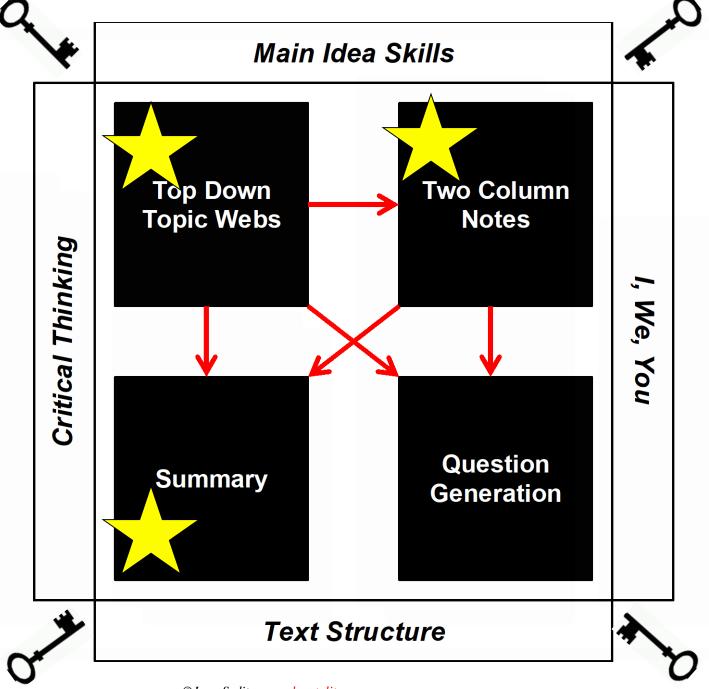






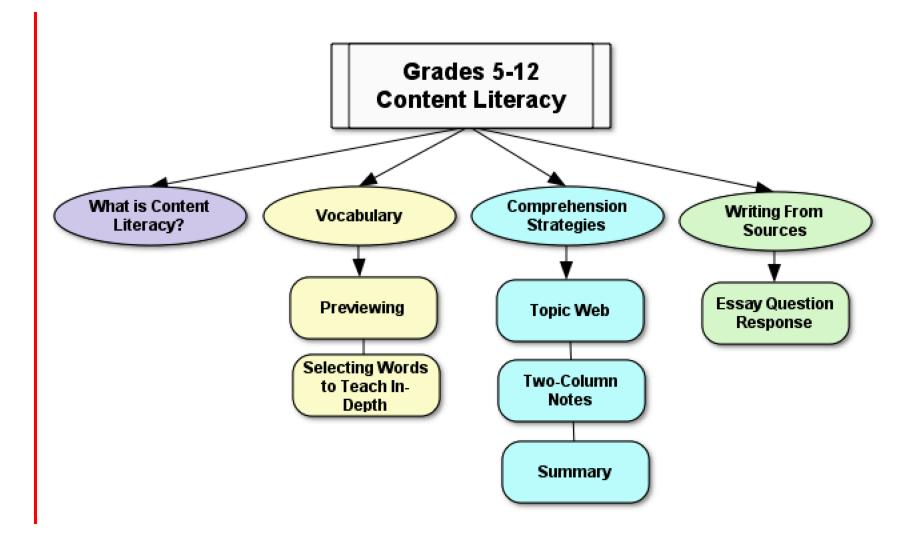






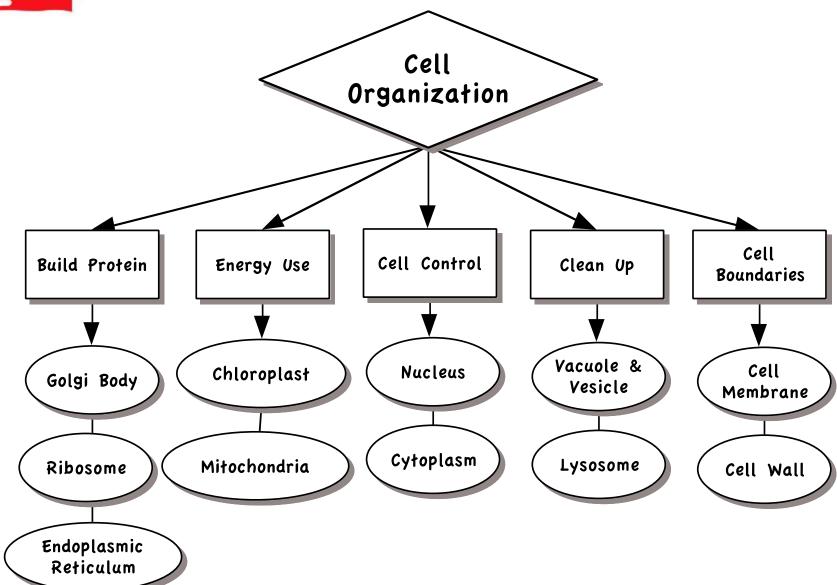


Top-Down Topic Web



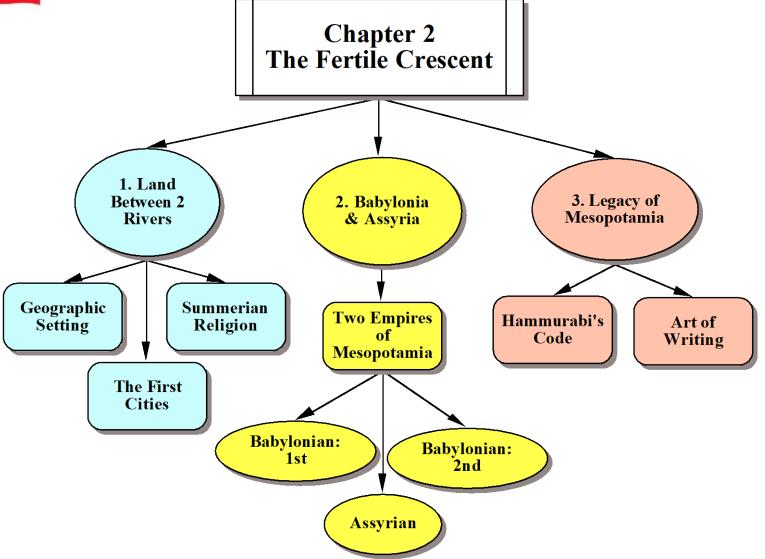


web of science textbook section



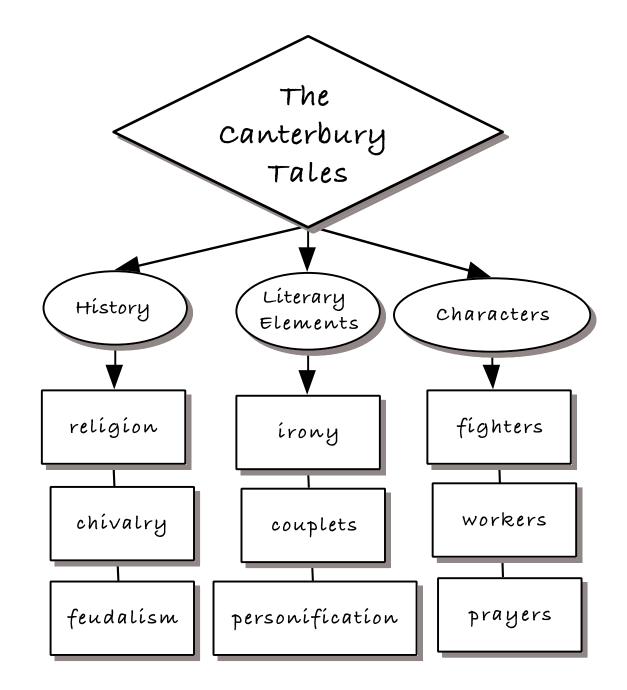


web for chapter of expository text (social studies)



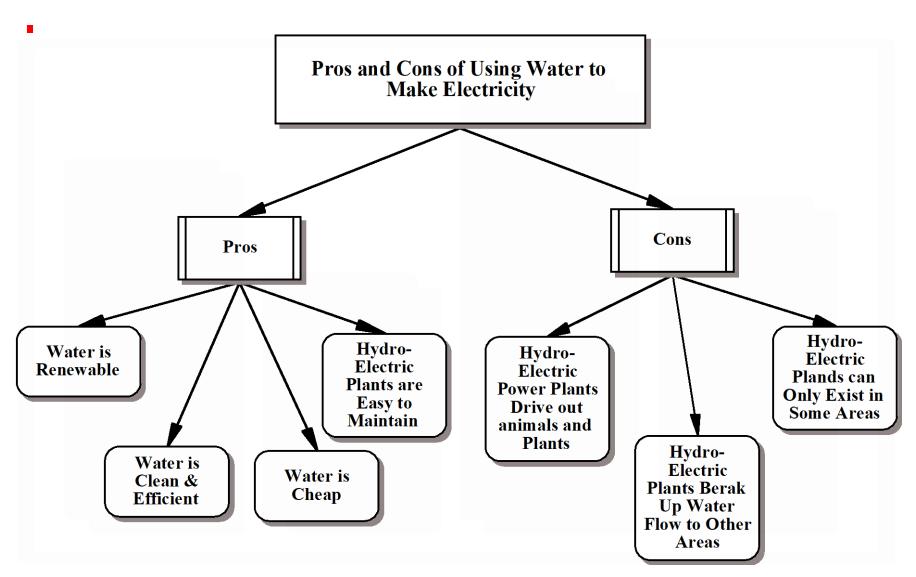


English: background information





topics for a class debate





Making Topic Webs



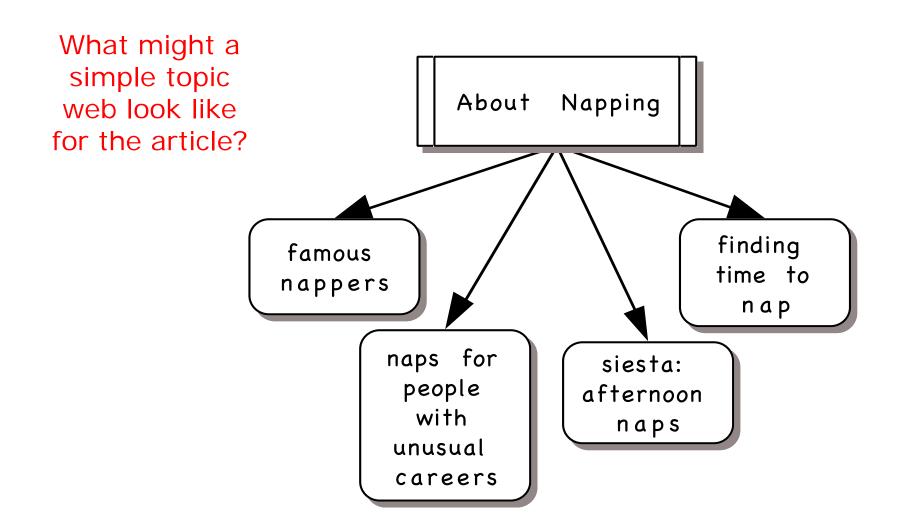


"We're at the you do it stage!"





Practice Activity





Practice Activity

Scaffolding Text Prior to Reading

- Students who struggle with reading may benefit from annotated text.
- Consider:
 - Identifying introduction and conclusion
 - Circle transitions
 - Insert guiding questions
 - Provide supports to identify paragraph main ideas
 - Insert simple definitions or synonyms

Look at the scaffolded source.



Two-Column Notes

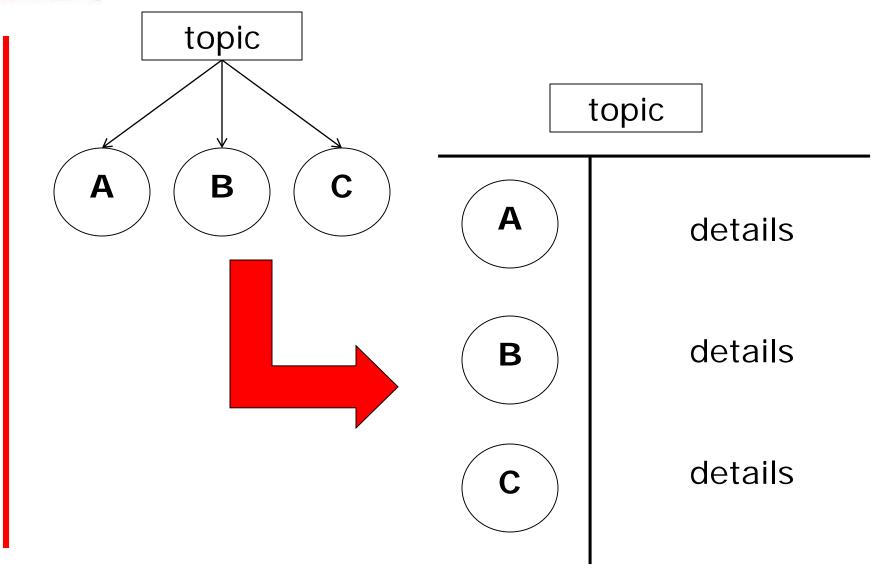
Topic _____

Big picture

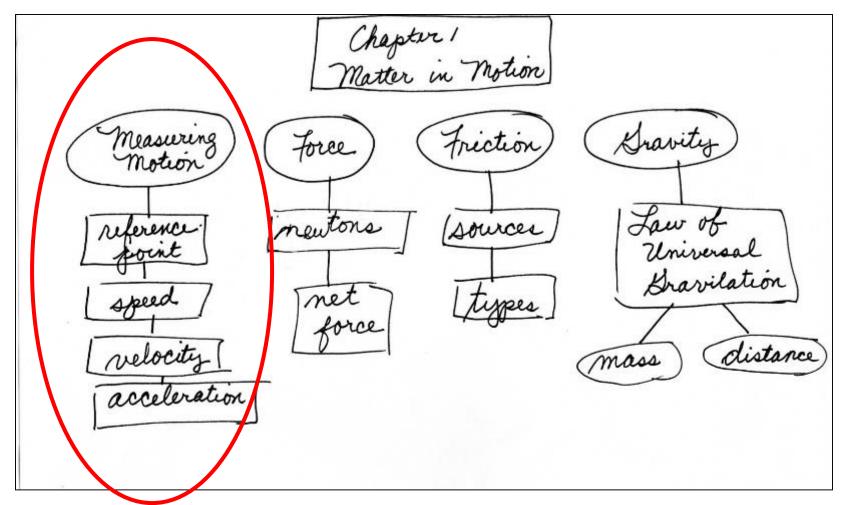
Subordinate information



Webs to Notes



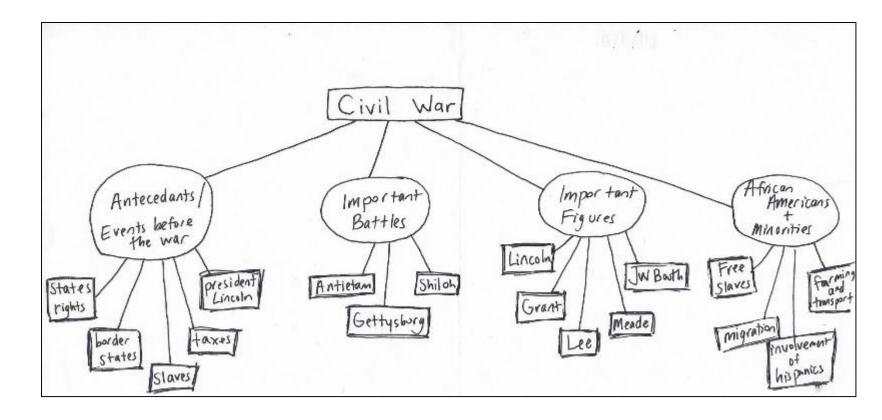






	measuring motion
reference point	· an object that appears to stay in place compared to a moving object · we cannot observe motion without
point	place compared to a moving object
•	· we cannot observe motion wishout
	a reference point
speed	· the rate (how fast) which an object more need to know total distance and
U	· need to know total distance and
	total time total distance
	total time total distance total time
relocity.	· an object's speed in a particular
•	direction
	· a change in speed is a change in direction = a change in velocity
	· Combining velocities
	· tevo velocities in same
	direction - add
	direction - add two velocities in opposite directions - subtract AND take the direction of larger
ur - III	directions - subtract AND
	take the direction of larger
	welocity
acceleration	· a change in velocity · a change in speed or · a change in direction · acceleration =
	· a change in speed OR
	· a change in direction
	· acceleration = .
	final velocity - starting velocity
	time it takes to change
	THE VALUE OF THE PARTY OF THE P









- Shiloh

Events leading to the Civil War



Important Battles of the Civil War

of the Civil war

African Americans/ minorities



- North and South argue about the STATES RIGHTS
- Expansion of territory, BORDER states and SLAVES
- Disputes over federal TAXATION
- Election of ABRAHAM LINCOLN
 - from same state as OBAMA
 - famous speech
 - Memorial in D.C. (we saw this on field trip!)
- Antietam was very bloody, we saw a video on this
- Gettysburg
 - turning point of Civil War
 - near to our school

Remember now they did amportation!

CONFEDERAC

- Abraham Lincoln, president, wrote Emercipation Proc.
- Ulysses Grant, general for the Union,
- Robert E. Lee general for the South/Confederacy
- Meade, leader for the Union at Gettys burg
- J Wilkes Booth arrested for assassination of Lincoln co-conspirators?
- South dependent on Slaves for economy
- Freed slaves (Eman. Proc.) migrate to Northern Cities
- Struggles feeding troops and economic struggles is a major factor why the South LOST the war
- -Hispanics were involved in both sides
- Were Native Americans involved?
- han did the South recover without slaves ? ()



notes from textbook chapter (science)

Chapter 4.1- What Do Genes Look Like

The answers to the questions will serve as your details.

DNA

1. What is DNA?

Nucleotides-The Pieces of the Puzzle:

- 1. What is a nucleotide?
- 2. What are the four bases used in a nucleotide?

- 1 DNA IS DEUXTRIBONULLEIL ACID.
- 1. A NULLEGIDE IS A SUB-UNIT OF DNA THAT CONTAINS A PHOSPHATE, SUBAR; A BASE PAIR
- 2. ADENINE / THYMINE LYTOSINE / GUANINE

Chargaff's Rule:

1. Chargaff's rule states:

Eureka

- Who are the two scientists that discovered the structure of DNA?
- 2. What did Watson and Crick conclude about DNA's structure?

- THAT THE AMOUNT OF ADENINE & THE AMOUNT OF THYP
- 2. THAI THE AMOUNT OF CYTOSINE THE AMOUNT OF GUAN

· JAMES WATSON AND FRANCIS CRICK DISCOVERED THE STRUCTURE OF BUNG

2. DWA RESEMBLED A TWISTED LADDER CALLED

DNA Structure

1. Describe the structure of DNA?

Making Copies of DNA

- What does the text mean by complementary?
- 2. What is meant by replication?
- Describe the replication process.
 From Trait to Gene
- 1. What exactly is a gene?

(THINK OF A LADDER)

THE SIDES OF DNA ARE ALTERNATING SUGARS !
PHOSPHATES

- 2. THE RUNGS OF DNA ARE ALTERNATING BASE PAIRS.
- IN MEANS THAT BASES WILL ONLY BOND W/A SPECIAL RASE
- 4. ADENINE IS COMPLEMENTARY TO THYMINE. IS COMPLEMENTARY TO CHIESINE.
- 2 REPLICATION IS WHEN DNA MAKES A COPY OF
- 3. DNA LINZIPS DOWNT THE MIDDLE- EACH SIDE CAN BE USED AS A PATTERN. THE BADES THEN BONDS TO ITS COMPLETENT BASE FERHING A COMPLEMENTARY STRAND CREATING & DAR MALEUM
- I A GENE IS A STRING OF BASES (A SECTION OF DWA)



notes about a process (math)

GRAPHING A LINE

FIND ORDERED PAIRS

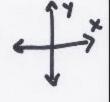
PLOT ORDERED PAIRS

DRAW LINE (How accurate is your line?)

IDENTIFY X AND Y
INTERCEPTS

(Will x and y always be integers (at intercepts)?

- 1. choose x, find corresponding y in equation
- 2. form 3 ordered pairs
- 3. make a table XX
- 1. draw x and y axes
- 2. label x-axis and y-axis
- 3. plot points and label ordered pairs



- 1. use ruler to draw line through points
- 2. label line with equation
- find where graph intersects x-axis, label as ordered pair (x,0)
- find where graph intersects y-axis, label as ordered pair (0,y)



notes from textbook chapter (social studies)

Grade 4 Jason He Na regensette the narragensett people way of like hunter siched grow corn and vectil Way OF life They lived in road iland I · successor correction · They lived in a wywom oused some salls of took each taritory had a rower or . Day Tradist not 3 may says Roger willing vised the grand conges in The many went to battle sachen · alot of narragonsatt Deid omeny world to canidaer uter groups Reservation is lond that is seat asyd for notive amaricans a Dowwood it a native maren Bestival The Notice amarkage tribe coroquets were the stronger tribe who moth lost a amore of are on side a union of groups Seneca, mohawk, Oneida, mondago Onondaga jand cayinga found the Oroquoti 1722

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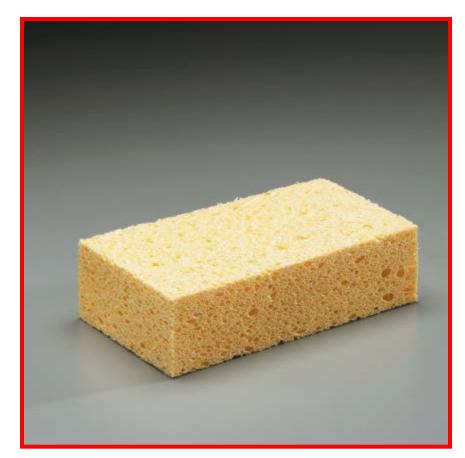


WHAT is a summary?

- One of the most effective strategies
- A review of the main ideas or most important events

How is summarizing different from retelling or recounting?

Sponge Metaphor





How to Write a Summary

- Distinguish main ideas from details.
- 2. Write in phrase form.
- 3. Begin with an introductory statement.
- 4. Turn main ideas into sentences, and include a few details.
- Combine the sentences.
- 6. Incorporate transition words.
- 7. Proofread.

MIST

Main ideas listed

Introductory sentence

Sentences with main ideas

Transitions added



Transition Words

purpose

Transition Words and Phrases

To indicate a time relationship	after, afterward, after that, at first, at this time, before, beginning with, beyond, during, earlier, ending with, eventually, finally, following, from then on, in the meantime, last, later, meanwhile, next, now, since, soon, then, until, while
To indicate spatial placement	below, beside, between, beyond, farther on, here, next to, parallel with
To list or present a series of ideas	after, after that, finally, first, lastly, next, second, third
To add information or continue a line of thought	also, another, besides, further, furthermore, in addition, likewise, moreover, similarly
To summarize or show conclusion	accordingly, finally, in conclusion, in other words, in short, to conclude, to sum up, to summarize
To show comparison	by comparison, compared to, in like manner, likewise, similarly
To show contrast	although, but, however, in contrast, nevertheless, on the contrary, on the other hand, unlike
To repeat information or stress a point	above all, in fact, in other words, most important, once again, to repeat
To provide an example or illustrate a point	for example, for instance, such as, to illustrate, that is
To show cause and effect	as a result, because, because of, caused by, consequently, for that reason, that is why, therefore, thus
To state the obvious	certainly, granted that, in fact, most certainly, naturally, obviously, of course, surely, undoubtedly, without a doubt
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Summary Template

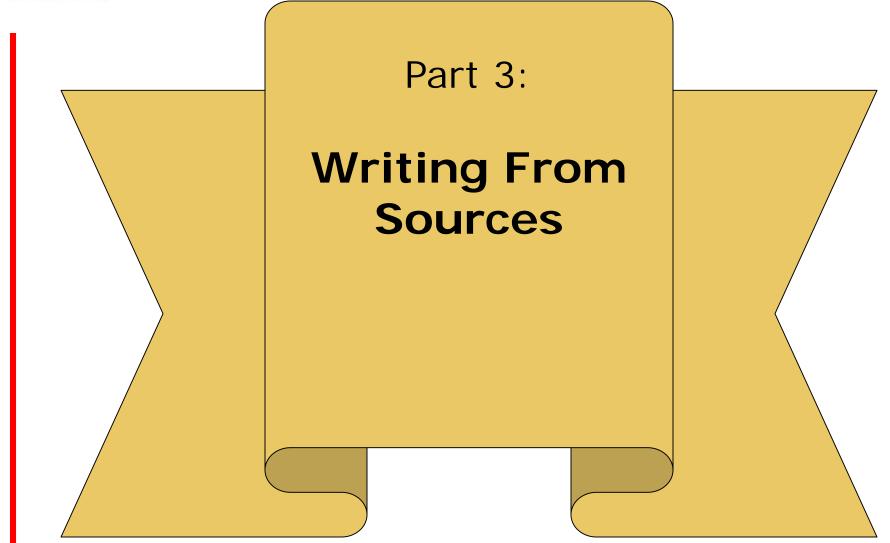
rite an introductory sentence or topic sentence.	
ite an introductory sentence or topic sentence.	
ite an introductory sentence or topic sentence.	
ite an introductory sentence or topic sentence.	
ite an introductory sentence or topic sentence.	
rite an introductory sentence or topic sentence.	
ite all the main ideas in sentences in order.	
	_
	-
d transition words: first, next, last, finally, before, after.	
pofread your summary.	



Practice Activity

 Review the completed two-column notes and the summary.





Quick Writes	Content Learning Tasks	Formal Writing Tasks		
 < 10 min Related to content Objective: process, reflect on, or assess content learning No revision Informally evaluated, not graded 	 1 or more sessions Related to content Objective: deepen understanding & reflection, assess content learning May be revised May be informally evaluated, may be graded 	 A. Classroom Multiple sessions Related to content Objective: more deeply learn content, develop authentic writing skills, assess writing skills, prepare for on-demand writing Revised, formally evaluated, graded B. On-Demand Assessments Timed setting Objective: assess comprehension & writing Formally evaluated, Scored 		

Keys to Literacy



Mini WAG: Teacher & Student Planning Tool

Writing Task:

Write a mini-article that answers this question:

"What are some effects of not getting enough sleep and advantages to taking naps?"

Audience:

Assume that your piece might go in the school newspaper - write it with students in mind.

Purpose:

To support your learning of the content for science class.

To practice your writing skills.

Length:

6 to 12 sentences organized into 1 or 2 paragraphs.

Directions & Requirements:

- Include a 1 to 2 sentence introduction and a 1 sentence conclusion.
- Include at least 2 effects of not getting enough sleep, and at least 2 advantages of napping.
- Include at least 3 transition words/phrases, underline them.

Additional Information:

- You will have an opportunity to collaborate with a partner to develop notes prior to writing your piece.
- A list of transition words/phrases will be provided by the teacher.



Review the Annotated Text

- Which paragraphs contain relevant information?
- Information is underlined.

effects of not getting sleep benefits of napping



Provide blank notes as a scaffold.

sleep and napping

Effects of lack of sleep

- Interrupted sleep: confuses internal clock
- Causes trouble concentrating
- Makes you grumpy

Benefits of napping

- Helpful for people with unusual work schedules
- Improves memory & mental performance
- Can reduce # mistakes tired person makes
- Helps brain function at higher level = better ideas, solutions, recall
- Happier & more alert
- Less likely to die of heart disease, lowers blood pressure



Notes to Writing

Napping can counter the effects of not getting enough sleep. When sleep is interrupted it confuses a person's internal clock. One effect is to cause you to have trouble concentrating. Another effect is that it makes you grumpy! That is why napping is helpful for people who do not get enough sleep because of unusual work schedules. Napping improves memory and mental performance. This results in a tired person making fewer mistakes. Napping has also been found to help the brain function at a higher level. This in turn leads to better ideas, solutions, and recall of information. In addition to making you happier and more alert, napping will lower your blood pressure and make you less likely to die of heart disease. There certainly is a case to made for taking naps!



Practice Activity: "Napping"

- Vocabulary tasks
 - Previewing
 - Selecting words to teach in-depth
- Comprehension strategies:
 - Topic web graphic organizer
 - Two-column notes
 - Summary
- Writing from sources
 - Essay question response



Keys to Literacy

- Keys to Beginning Reading
- The Key Comprehension Routine (4-12 and K-3)
- The Key Vocabulary Routine
- Keys to Close Reading
- Keys to Content Writing
- Keys to Argument Writing
- Keys to Early Writing
- The ANSWER Key Routine for Extended Response
- Letterland Phonics

Literacy Lines Blog

https://keystoliteracy.com/blog/



Free Instructional Resources

https://keystoliteracy.com/free-resources/

