

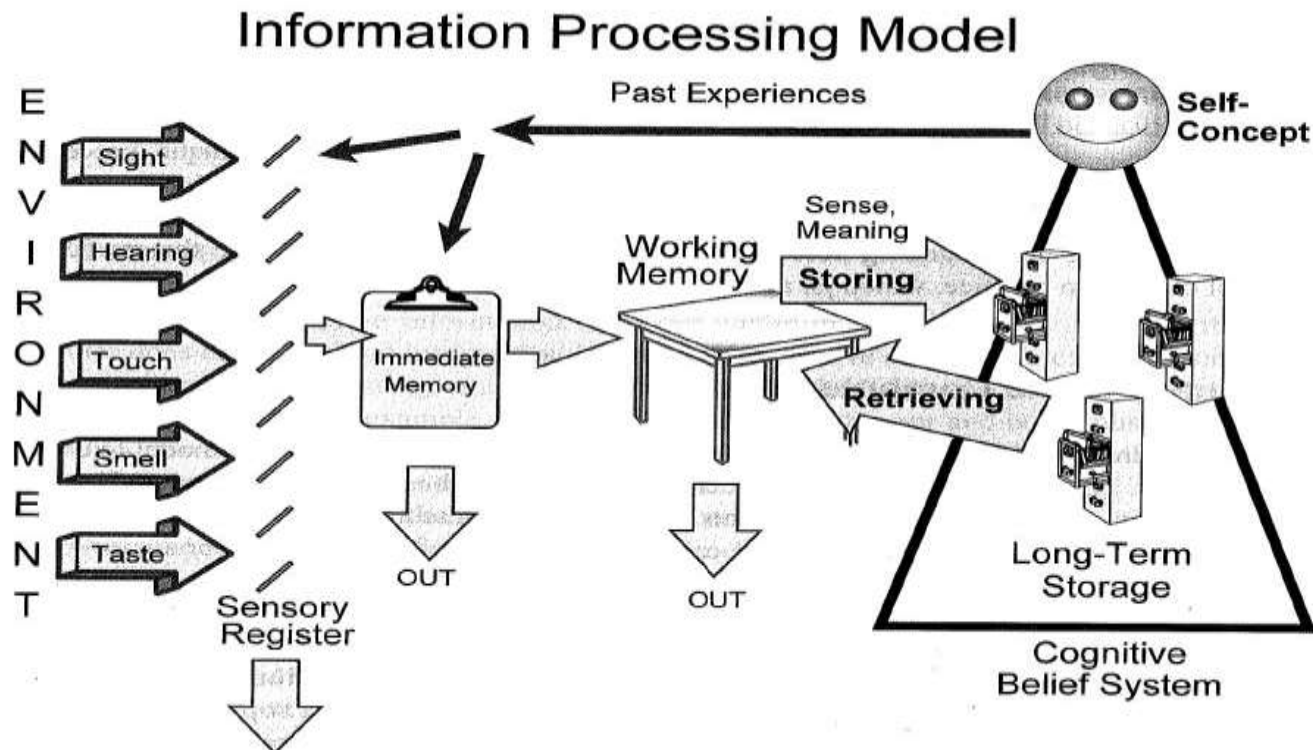



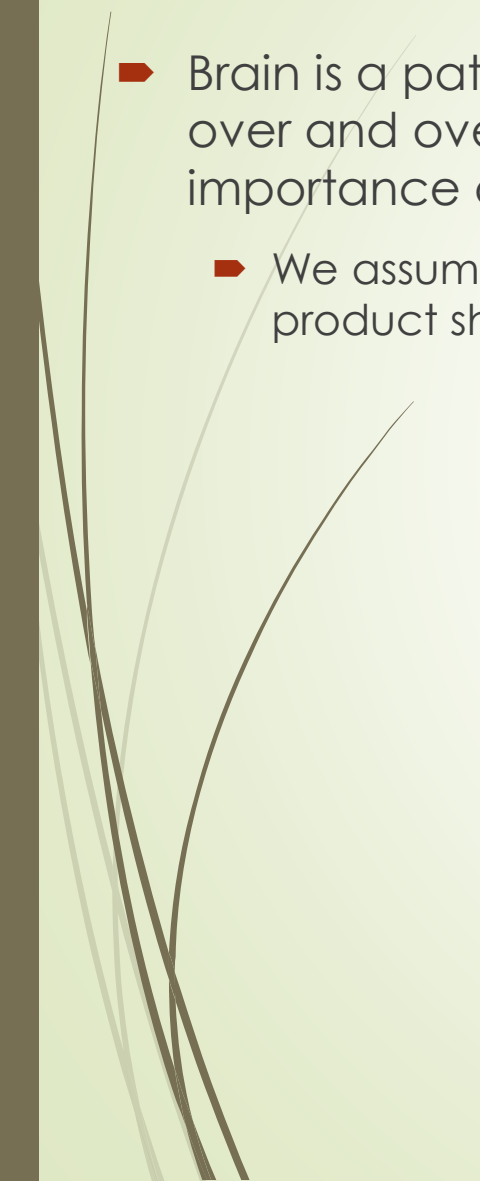
Literacy Across the Curriculum

Focusing on Comprehension

What do you remember?

- Why is explicit reading instruction necessary for student success?



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- ▶ Brain is a pattern machine – teach them patterns (tools/strategies) over and over in different contexts to convince the brain of the importance of the skill
 - ▶ We assume that kids have proficient patterns/strategies to use – proof in product shows not so
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What's in it for us?

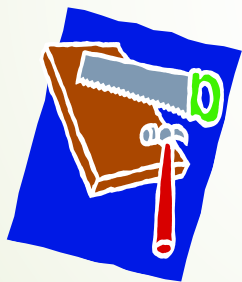
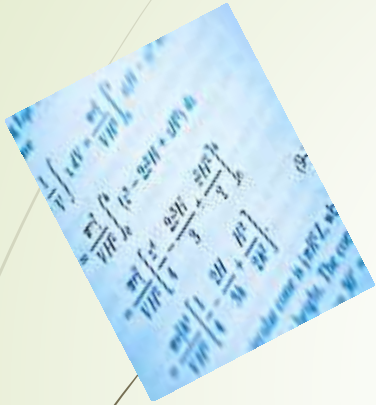
► Students benefit

- Slow down & focus
- Better comprehension
- Learn how to handle difficult texts
- Increase depth of thinking about text
- Increase confidence
- Increased learning and retention
- Increase engagement with text – making connections

► Teachers benefit

- Students can discuss
- Students have notes for recall
- Study material – better test scores ?
- Formative assessment tool
- Students are active and do the work to learn
- Moves students towards independence

Literacy is the ability to communicate and demonstrate knowledge in all content areas.



The Common Core Standards are asking our students to do deeper, closer reading of rigorous, high quality literature and nonfiction. The standards can be chunked into three major sections, each with a separate reading focus.

Standards	Focus of the Standards
Standards: 1-3: Key Ideas and Details	In standards 1-3, the essential question is what does the text say? Comprehension
Standards: 4-6 Craft and Structure	In standards 4-6, the essential question is what does the text do? Analyze "How"
Standards: 7-9 Integration of Knowledge and Ideas	In standards 7-9, the essential question is what does the text mean? Evaluation



Objective: Focus on Comprehension

- Readers have to understand what the text says
- Can't think about it if they can't access it
- Annotation for comprehension
- Thinking Maps – Analogy Bridge & Tree Map

Annotate for comprehension

- “add notes”
 - Advantage = thinking & recall processes: less text, more focus, more understanding
 - For comprehension = most effective with guided direction
 - Find information to answer a specific question
 - Use Webb’s or Bloom’s models to help structure
- ***write and/or talk at the end***
- Summarizing or answering the question
 - Includes another brain process + increases probability of memory



Which statement is most important?

- Students must be able to understand the texts they read to achieve academic success.
- A poor ability to read and digest course material impacts negatively on students' performance and on their self-esteem.
- An inability to read affects students' ability to follow written instructions, be these in the form of essay questions or examinations.
- Comprehension is critical as it fosters analysis, critique, evaluation and synthesis of information from various sources.
- Draper et al. (2010) have argued that an artificial *literacy-content dualism* is being created, which hinders healthy discussion about how to effectively teach students literacy in the content classroom.

Student actions: Recognize, Locate, Identify

Possible Guided Annotation prompts:

- Choose the most important sentence in this paragraph.
- Identify the main idea of each section (then summarize the whole).
- What evidence does the author provide to prove _____?
- What is the author's conclusion about _____?
- Why is _____ important?
- What is _____? (What is osmosis?)
- What steps are in _____ process?

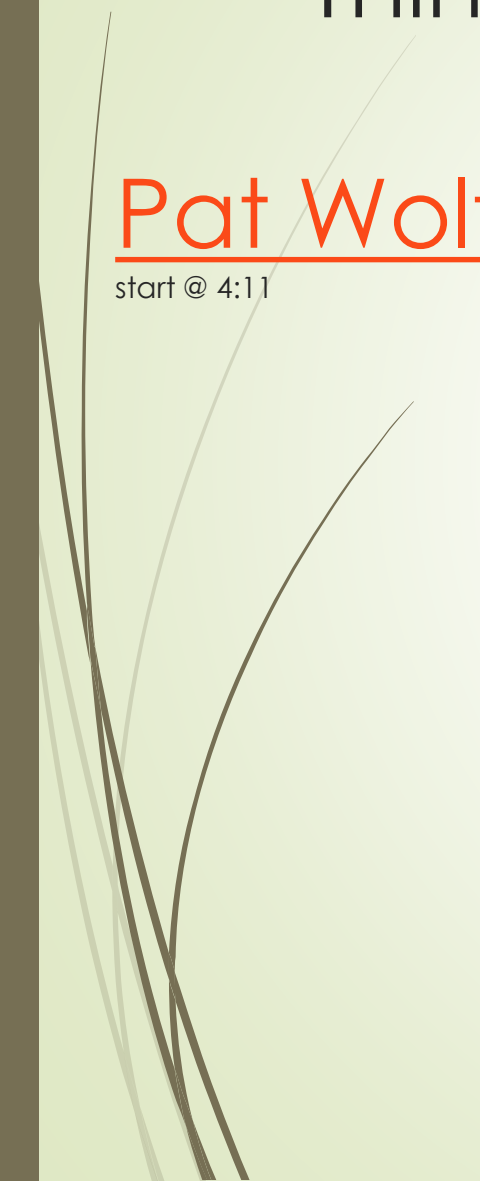
- How is this also valuable as an exit strategy or formative assessment?

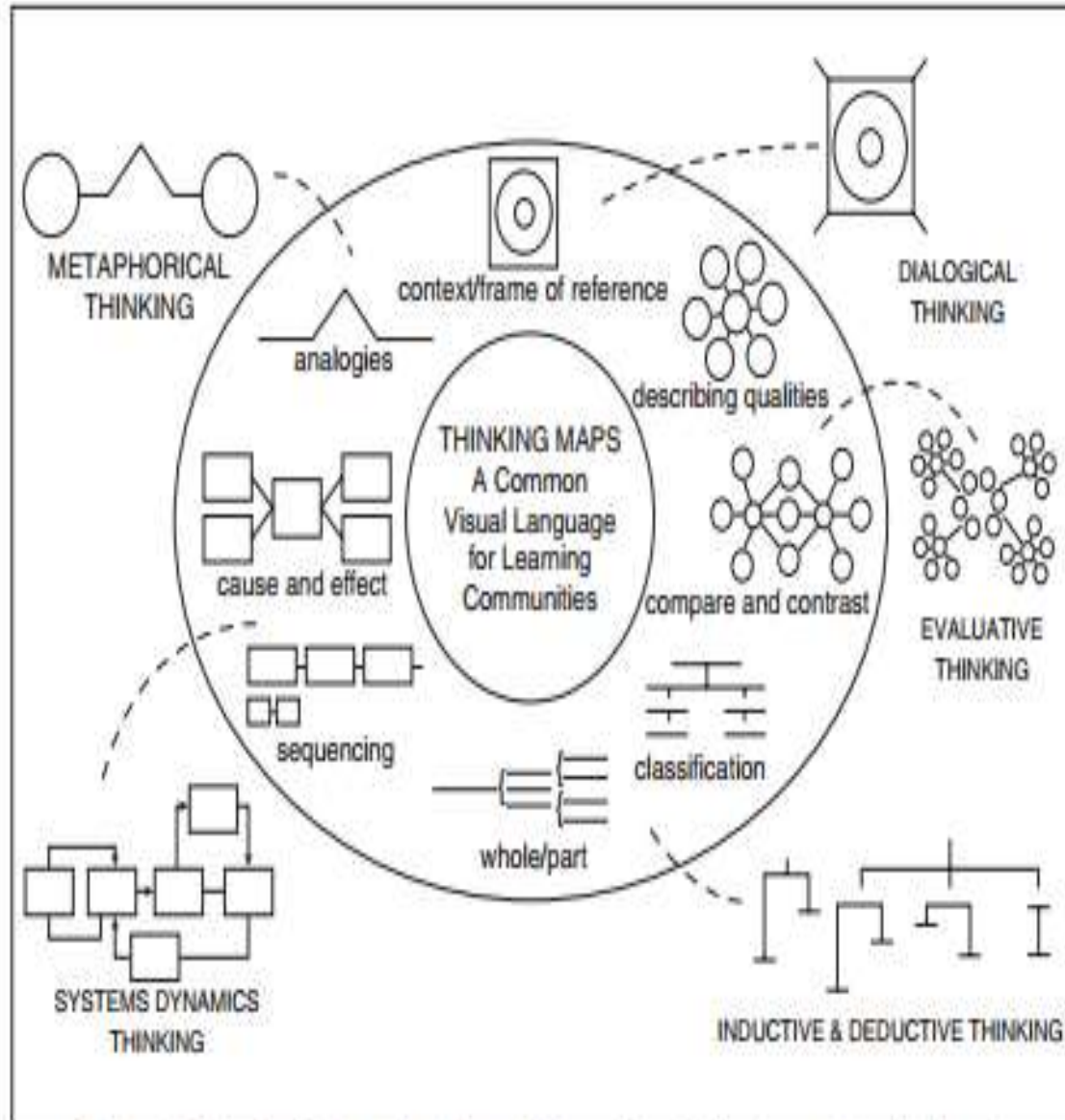


Thinking Maps:

Pat Wolfe

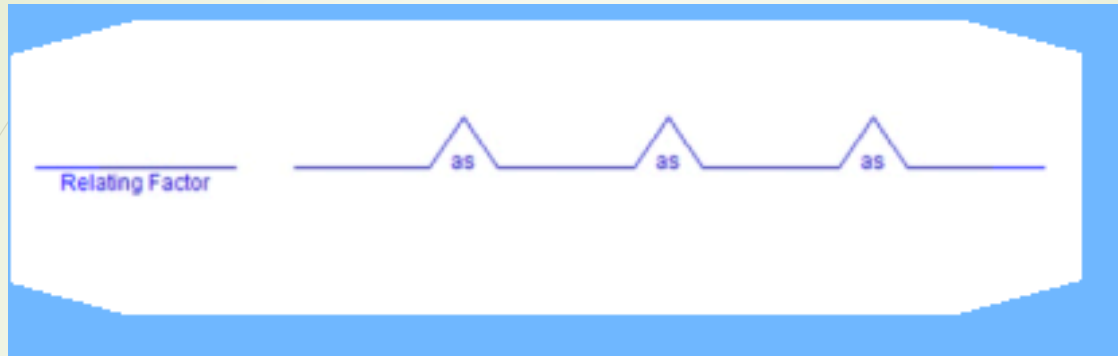
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The term "Thinking Maps" with or without the graphic forms of the eight Maps has a registered trademark.

Bridge Map



Is there an analogy between these ideas?

The Bridge Map provides a visual pathway for creating and interpreting analogies. Beyond the use of this map for solving analogies on standardized tests, this map is used for developing analogical reasoning and metaphorical concepts for deeper content learning.

- *identifying relationships
- * **good for vocabulary and concepts**
- * good for other relationship or comparison concepts

Artist is to
Medium of
Expression

Relating Factor

Picasso

as

Beethoven

as

Poe

Abstract
Painting

Classical
Music

Macabre
Tales

are a good
source of

Relating Factor

oranges

as

nuts

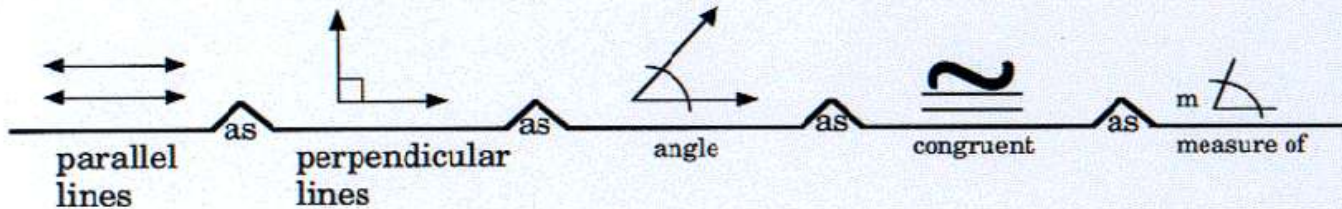
as

whole
grains

vitamin C

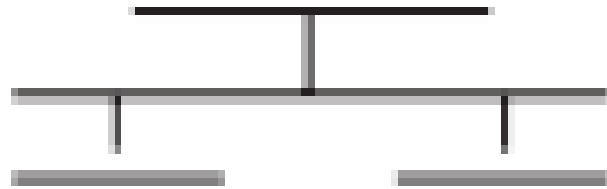
protein

fiber



Relating Factor = is the symbol for

Tree Map



How are these grouped together?

The Tree Map enables students to do both inductive and deductive classification. Students learn to create general concepts, (main) ideas, or category headings at the top of the tree, and supporting ideas and specific details in the branches below.

Factoring Polynomials

Greatest Common Factor

2 terms

Difference of 2 squares
 $x^2 - y^2 = (x+y)(x-y)$

Difference of 2 cubes
 $x^3 - y^3 = (x-y)(x^2 + xy + y^2)$

Sum of 2 cubes
 $x^3 + y^3 = (x+y)(x^2 - xy + y^2)$

3 terms

Trinomial
 $x^2 \pm bx + c$
 $x^2 \pm bx - c$

Perfect Square Trinomial
 $x^2 \pm 2xy + y^2 = (x \pm y)^2$

Trinomial - Leading coefficient $\neq 1$

4 or more terms

Grouping

Mr. Branch's
wiki site

cooperative
groups

hyperlinks;
online
resources

Egyptian
gods

Osiris

first mummy

god of the
underworld;
death

brother and
husband of
Isis

killed by his
brother Set

Ptah

creator god

god of
craftsmen

always
wrapped in tight
white cloak;
carries a staff

Ra

combines
with Amen
for Amen-Ra

combines
with Horus
for Ra-Horucty

god of sun

head of hawk

rides chariot
into underworld
at night

Amen

most powerful
god in ancient
Egypt

called king
of gods

Ram's head

Set

god of
chaos, evil,
storm, desert

you can't tell
what he is

threaten
harmony

Thoth

god of
writing,
knowledge,
wisdom

head of an
ibis; likes
baboons

connected
with moon

Horus

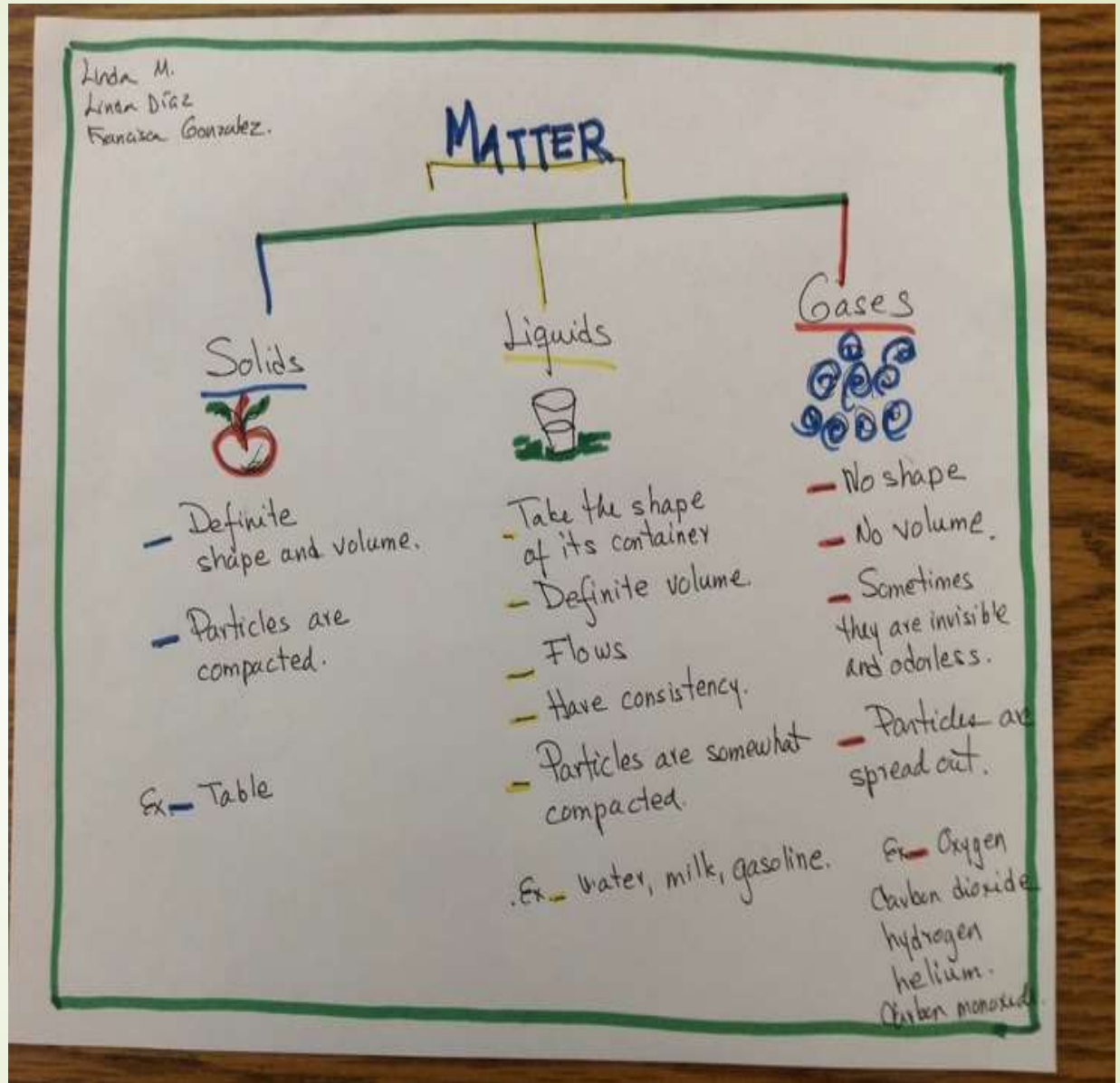
son of Osiris
and Isis

god of sky

head of
falcon

protector /
ruler of Egypt

Tree Map-
Science





Exit

- ▶ What would this look like in your content area?
- ▶ Turn to your neighbor and share 2 ways each of these maps could be used in your classroom.
- ▶ Share out examples whole group