Word Mapping Made Easy: How to 'Map" in Content Area Classrooms

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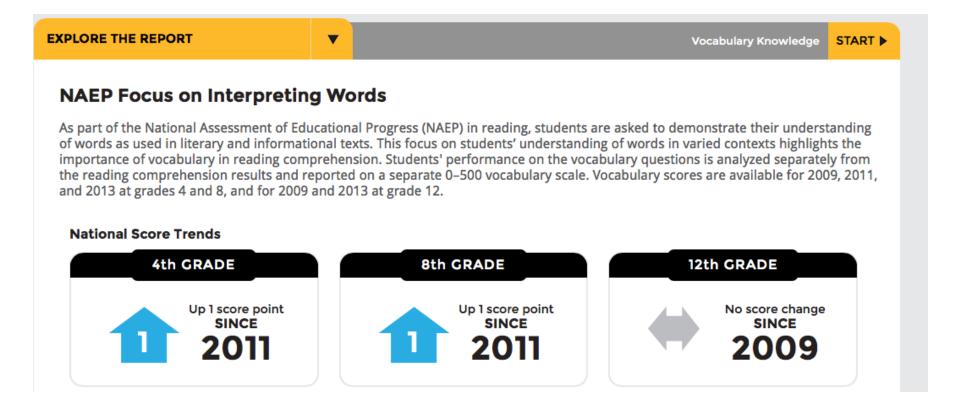
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Agenda

- ► What We Know Works in Vocabulary Instruction
- **►** Explicit Instruction
 - ► Tiered Words
 - ► Word Choice
- ► Tips for "Deconstructing" Words
- ▶ What's on the Horizon?

2013 NAEP FOCUS on VOCABULARY



➤ The environment for instruction must be word-rich and motivating, such as "word play" and giving students maximal opportunities to become interested in words and also experience incidental word learning.

Beck, Perfetti, & McKeown (1982) and Haggard (1982)

- Vocabulary should be addressed as a distinct area in the core curriculum.
- ► This allows for the development of specific word learning strategies.

Fisher & Blachowicz (2005)

Careful attention should be paid to the selection of appropriate words for systematic instruction and reinforcement.

Fisher & Blachowicz (2005)

- Emphasis on words that are useful for content learning and open doors to more learning.
- ► Attention should be given to **generative**Words that have parts found in many other words.
- Learning the **shared morpheme** leads to more word learning.

Biemiller (2001)

► Multiple modalities should be used in both instruction and learning.

Pressley & Woloshyn (1995)

Students should be active in exploring words and meanings.

Beck & McKeown (1982)

► They should develop independent strategies for word learning and the ability to use context, morphology and reference tools.

Fisher & Blachowicz (2005)

► Instruction should emphasize the connectedness in which words are related to topics and categories of meaning (e.g., synonyms, antonyms, classes, images, and events)

Blachowicz & Fisher (2003)

Vocabulary Instruction in Content Areas for SWDs

- Increased fluency and vocab knowledge via Explicit Vocabulary Instruction with science textbook (Seifert & Espin, 2012)
- ► Flash Cards (digital vs paper) in science classroom (Grillo & Deiker, 2013)
- ► Morphological Problem Solving with ELA classrooms (Pacheco & Goodwin, 2013)
- ▶ **Definitions vs Concept Mapping** (Palmer, Boone, & Spencer, 2014)
- ► Word Clue Strategy with science terms (Helman, Calhoun, & Kern, 2015)
- Multimedia Vocabulary Instruction with content acquisition podcasts (CAPs) in world history (Kennedy, Deshler, & Lloyd, 2015)

How Best to Explicitly Teach?

- ► **LINCS** (Ellis, 1992)
 - ► Word Specific approach
 - ► Recall definition via visual/auditory memory device
- ► Word Mapping (Harris, Schumaker, & Deshler, 2008)
 - ► Generative approach
 - Predicting meaning based on word parts

Word Choice

Tier 1	Tier 2*	Tier 3*
Very basic; sight words	High frequency words; "utility" words	Content specific; contextual
For example, • house • food • happy	For example, • variable • incredible • representative	For example, • polynomial • exoskeleton • circumference

^{*} A balance of Tier 2 & 3 words must be used in the content areas

Vocabulary Terms

- 1. Representation
- 2. Weathering
- 3. Geomorphology
- 4. Mt. Vesuvius
- 5. Convergent
- 6. Divergent
- 7. Dome
- 8. Plate tectonics
- 9. Eruption
- 10. Igneous
- 11. Mudslides
- 12. Orogeny
- 13. Dormant

- 14. Erosion
- 15. Volcanoes
- 16. Epicenter
- 17. Crater Lake
- 18. Viscosity
- 19. Geoscience
- 20. Earthquakes

Eliminate Tier 1 Terms

	Key Term	Tier 2	Tier 3
1	representation	Χ	
2	geomorphology		X
3	tectonics		X
4	converge	Χ	
5	diverge	X	
6	eruption	Χ	
7	igneous		X
8	orogeny		X
9	erosion		X
10	dormant	Χ	
11	viscosity		X
12	epicenter		X 15

Vocabulary for the Geomorphology Unit

	Key Term	Tier 2	Tier 3
1	representation	X	
2	geomorphology		X
3	tectonics		X
4	converge	X	
5	diverge	X	
6	eruption	Χ	
7	igneous		X
8	orogeny		X
9	erosion		X
10	dormant	X	
11	viscosity		X
12	epicenter		X



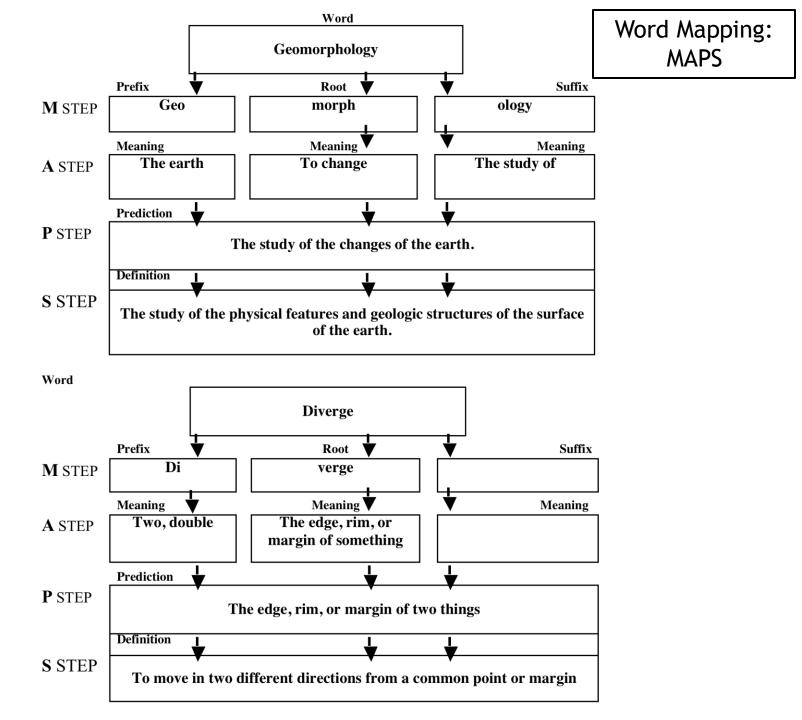


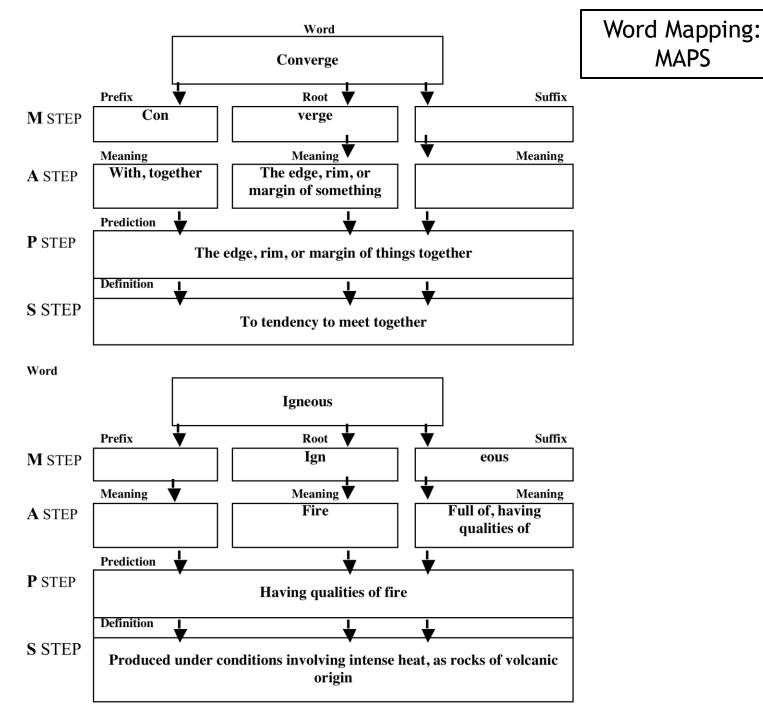
Tips for "Deconstructing" Words

- ► Look for words or known parts within the term.
 - ▶ un- <u>healthy</u>
- ▶ Bite off the biggest chunk!
 - ▶ anthrop- -ologist (instead of only an-)
- Word parts may have more than one meaning - must "play" with meanings to make prediction.
 - ▶ dis- ease

Tips for "Deconstructing" Words

- ► At times, the prefix/root/suffix "sequence" will not be used; not all words have all parts.
 - **▶** <u>port</u> or <u>dia- meter</u>
- ► At times, there will be "extra" letters (or vowels) left between word parts.
 - ▶ jud (ic) -ial





MAPS

The LINCS Table

(1) Term (5) LINCing Picture (2) Definition 4) LINCing Story Processes Man tectonics The study of the saves kids trapped processes by which in a school bus by the earth's crust (3) Reminding Word moving the earth's has attained its comics crust in the latest present structure comics. (1) Term (5) LINCing Picture 2 Definition (4) LINCing Story The robbers dormant In a state of rest snuck into the or inactivity building when (3) Reminding Word the doorman doorman decided to rest. (1) Term (5) LINCing Picture 2 Definition 4 LINCing Story The disc jockey viscosity The internal jumped into the friction of a fluid, water with a net causing it to resist (3) Reminding Word to help his CDs flowing disc jockey resist flowing down the river. (1) Term (5) LINCing Picture (2) Definition 4 LINCing Story epicenter A point, directly The shopping above the true center began to center of shake from a (3) Reminding Word disturbance, from disturbance shopping center which the shock beneath it. waves of an earthquake radiate

The Goal...

To work toward independence by choosing words for instruction carefully, focusing on **content** and **generative words** as part of a shared knowledge base.

Thus, both **general vocabulary knowledge** and **specific text-based** vocabulary should receive attention.

Meanings should be made **explicit** through demonstrations, discussion, usage, further discussion, and refinement

Stahl (1986)²

What's Next...?

Spanish Cognates



▶ Domain Specific Vocabulary

