

Identifying Similarities and Differences

Classroom Instruction that Works
Research Based Strategies for
Increasing Student Achievement
Chapter 2

Research & Theory

- Explicit guidance
- Independently
- Represent in graphic or symbolic form
- Identification of similarities and differences can be accomplished in a variety of ways. It is a highly robust activity

Classroom Practice

- Comparing
- Classifying
- Metaphors
- Analogies
- Each has:
 - Teacher-Directed Tasks
 - Student-Directed Tasks
 - Graphic Organizers

Classroom Practice

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Graphic Organizers for Comparison

- The Venn Diagram
- The Comparison Matrix

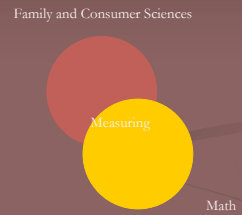
Venn Diagram



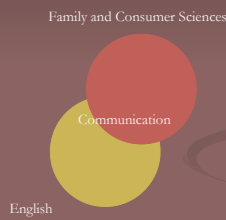
Venn Diagram Example for Cross-walking FCS



Venn Diagram Example for Cross-walking FCS...cont



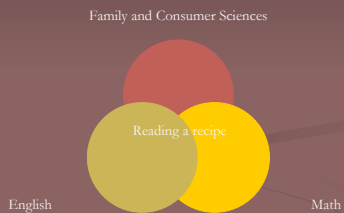
Venn Diagram Example for Cross-walking FCS...cont



Venn Diagram Example for Cross-walking FCS...cont



Venn Diagram Example for Cross-walking FCS...cont



Venn Diagram Example for Cross-walking FCS



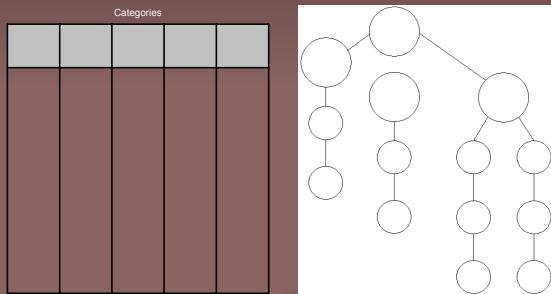
Comparison Matrix

Comparison Matrix				
Characteristics	Items to be compared			
	#1	#2	#3	
1				Similarities
				Differences
2				Similarities
				Differences
3				Similarities
				Differences
4				Similarities
				Differences

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Graphic Organizers for Classification



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Metaphor Example

- Love is a rose.
 - Literal:
 - **Rose:** The blossom is sweet to smell and pleasant to touch, but if you touch the thorns, they can stick you.
 - Abstract:
 - Something is wonderful and you want to go near it, but if you get too close, you might get hurt.
 - Literal:
 - Love: Makes you feel happy, but the person you love can end up hurting you.

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- *Analogies*

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Graphic Organizer for Analogies

A blank graphic organizer for analogies. It consists of a large white rectangle with a double border. Inside, there are four smaller white boxes with single borders, arranged in a 2x2 grid. A horizontal line is drawn across the middle of the organizer, separating the top two boxes from the bottom two boxes.

Graphic Organizer for Analogies in Use

thermometer is to temperature

Relationship: _____ measures incremental changes in something

as odometer is to distance

Analogy Exercise

- _____ is to humans as carbon dioxide is to plants.
- Tsunami is to _____ as earthquake is to tremor.
- _____ is to earth as nucleus is to atom.
- Frequency is to sound as ampere is to _____.
- Newton is to force and motion as Bernoulli is to _____.