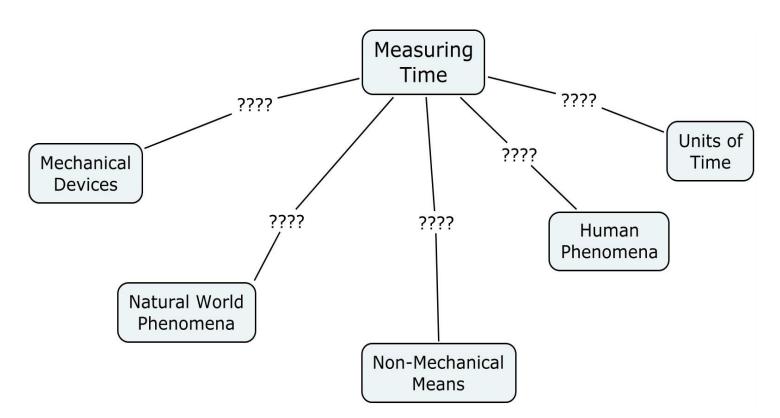


What is a Concept Map?

- Visual Representation of Cognitive Knowledge Structures (schemata)
- Scaffolds/Templates to Build Understanding
- Creating a Concept Map
 - Generating Concepts
 - Organizing Concepts (hierarchically, sequentially, etc.)
 - Linking Concepts with Relationships





Possible relationships:

- •is an example of
- •leads to
- •is a result of
- •include

- •can be measured with
- •are manifested as
- •are greater than
- •create

Concepts

- •sun
- minutes
- •shadows
- •moon
- •hourglass
- walking
- •wrinkles
- •seasons
- singing
- •clock
- •hours
- •tides
- gray hair
- •sundial

...

Concept Maps for Higher Order Thinking

- Analysis and Synthesis
- Facilitating Metacognition
- Emphasis on Relationships Among Ideas
- Improved Retention
- Rapid Retrieval



FEUP Project

- Connecting Theory and Practice
- Preliminary Results
 - Improved Performance
 - Positive Student Attitude
 - Self-reported Learning Improvement
 - Positive Instructor Observations



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