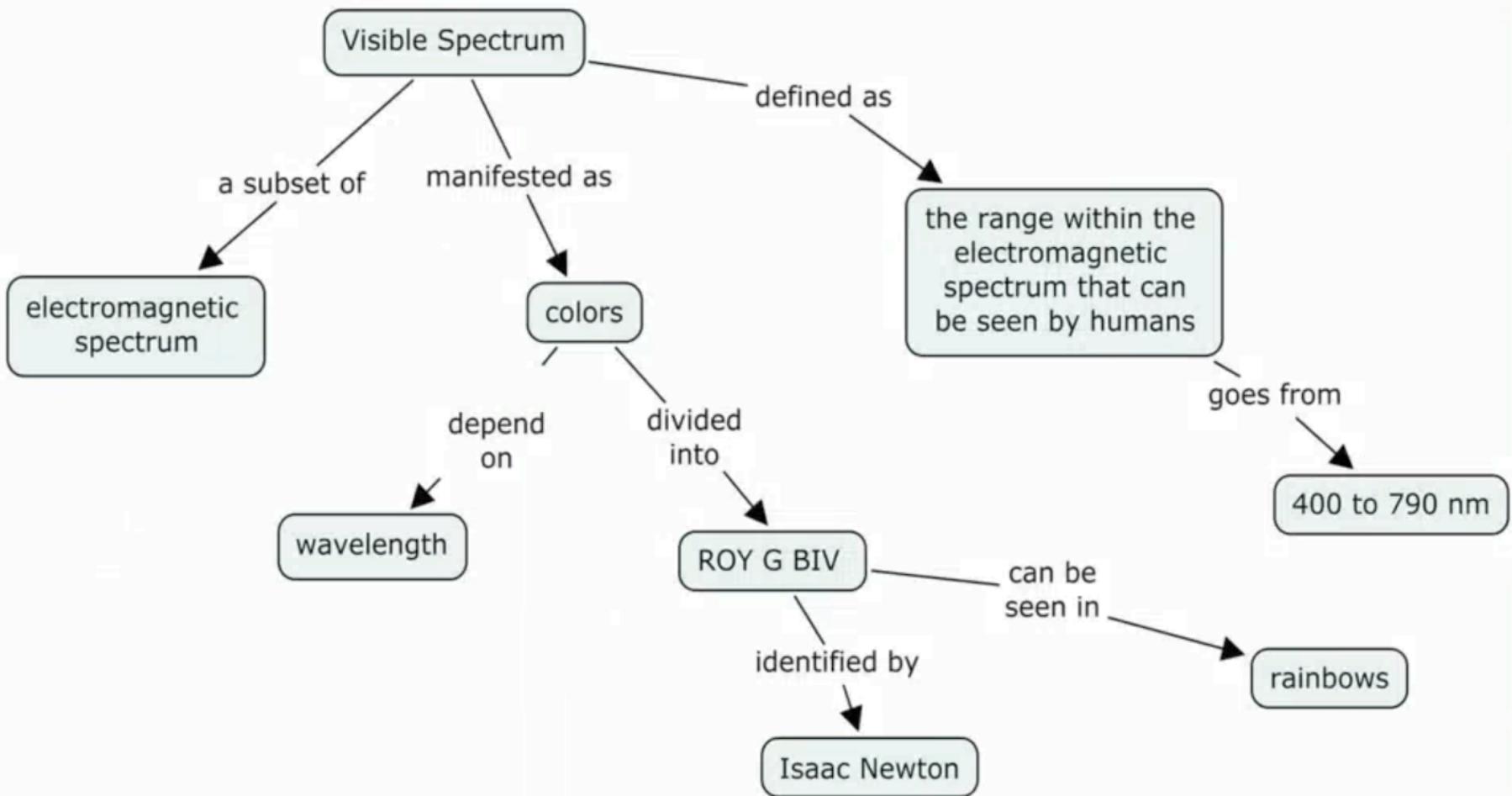
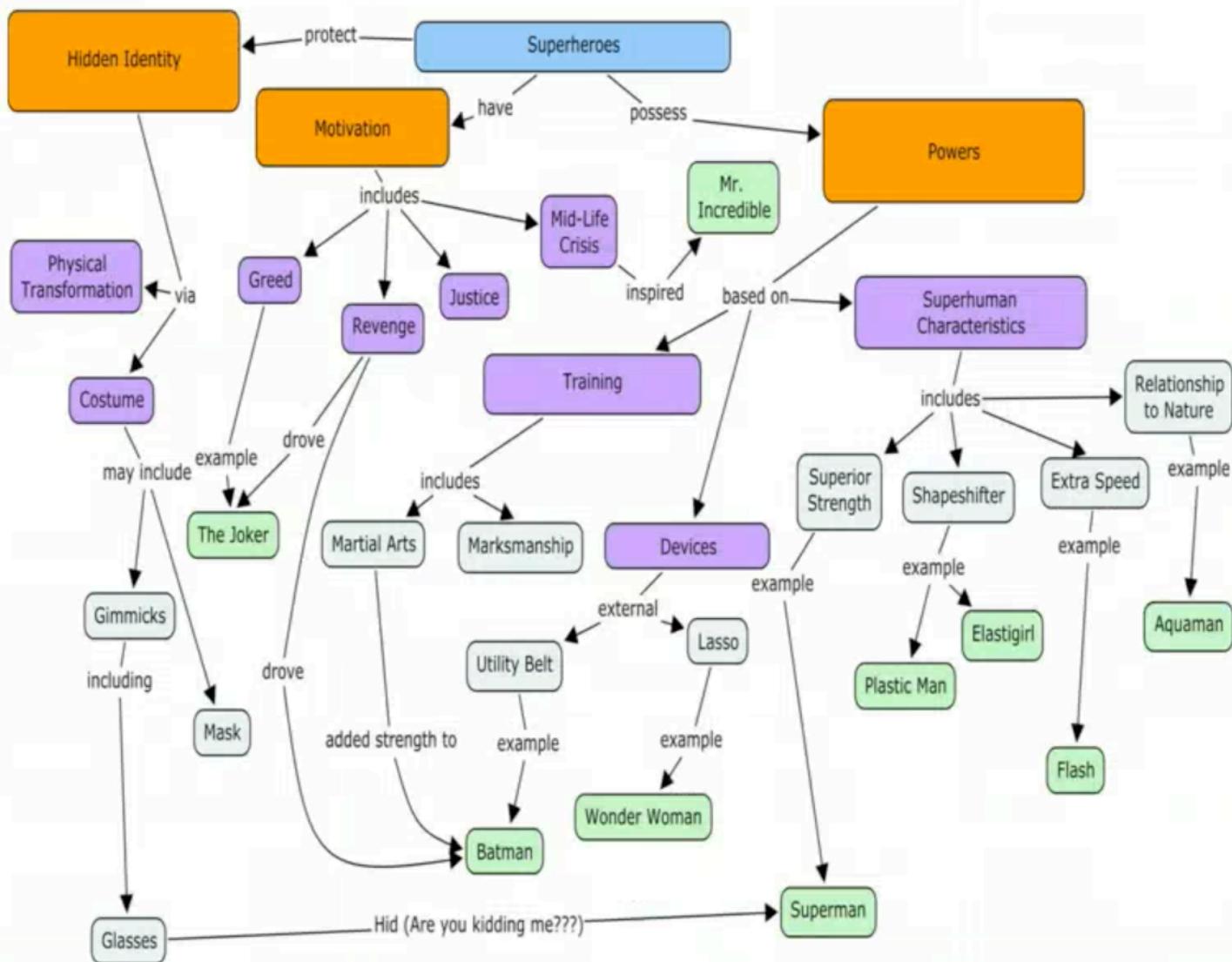
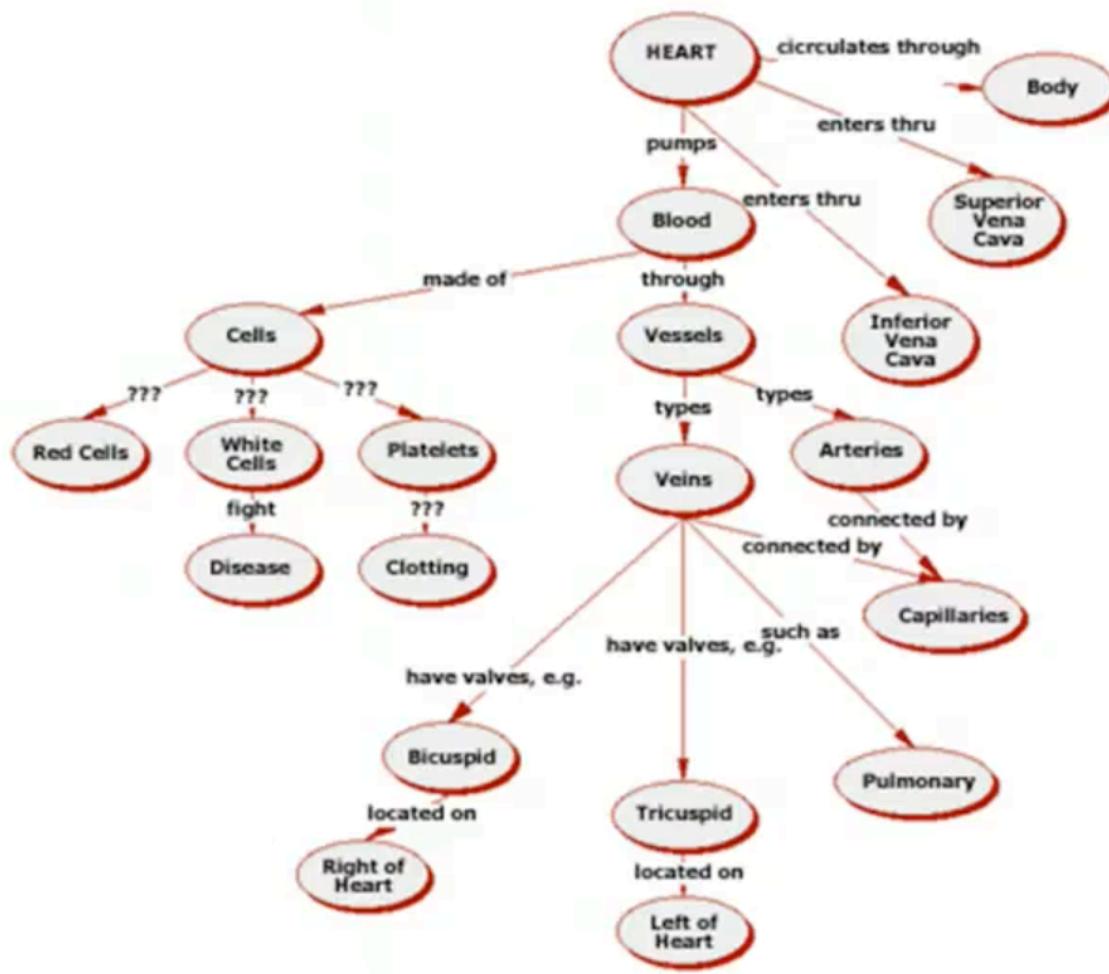


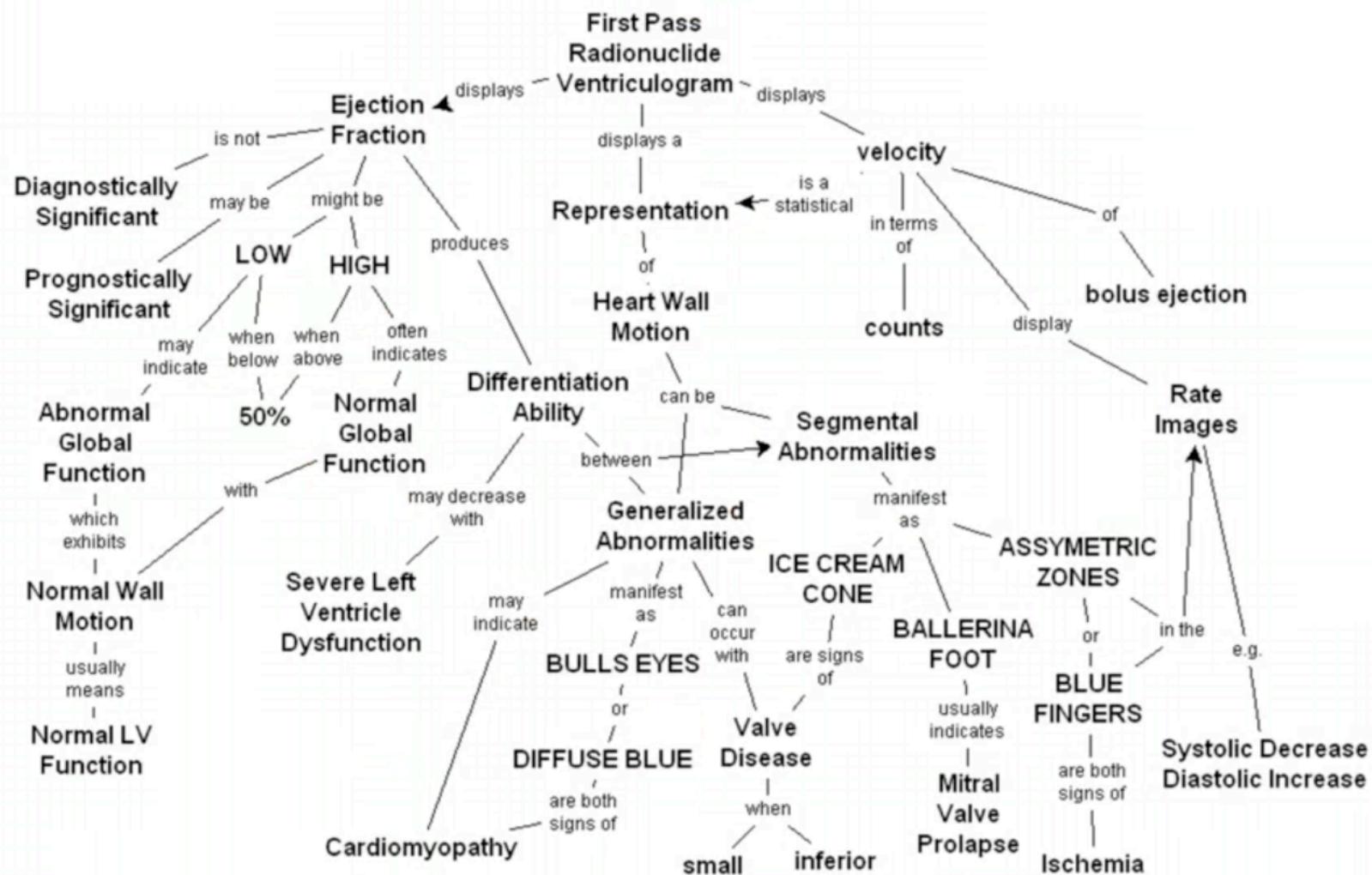
What is a Concept Map?

- Visual Representation of Cognitive Knowledge Structures (schemata)
- Analogous to a Highly-branched, Non-linear Flowchart
- Scaffold/Template to Build Understanding









Concept Maps and Learning

- Helps students focus on key ideas and ignore irrelevant data (reducing cognitive load)
- Enables rapid retrieval of detailed information and related concepts
- Use of CM's over time shows greater clarity in thinking and more densely-networked ideas

Instructional Strategies

- Generate concepts individually, in small groups, or in a large group
- Introduce CMs by showing examples, providing templates, assigning labels as a group activity, and/or providing lists of key concepts
- Have students explain their maps to peers to ensure that they really do understand the concepts and relationships

Software and References for Concept Mapping

- Free: Cmap Tools <http://cmap.ihmc.us/download/>
- For Purchase: Inspiration, MindManager

- Canas & Novak (2006) *Re-examining the foundations for effective use of concept maps*
- Nesbit & Adesope (2006) *Learning With Concept and Knowledge Maps: A Meta-Analysis*
- Maas & Leauby (2005) *Concept mapping—exploring its value as a meaningful learning tool in accounting education*
- Edmondson (2005) *Assessing science understanding through concept maps*