**Resources for Concept Mapping**

**Background and research on concept mapping:**

* Ausubel, D.P. 1963. *The psychology of meaningful verbal learning*. New York: Grune and Stratton.
* Haugwitz, M., Nesbit, J. & Sandmann, A. (2010). Cognitive Ability and the Instructional Efficacy of Collaborative Concept Mapping. *Learning and Individual Differences, 20* (5), 536-543. doi:10.1016/j.lindif.2010.04.004
* Hay, D., Kinchin, I., & Lygo-Baker, S. (2008). Making learning visible: the role of concept mapping in higher education. *Studies in Higher Education, 33*(3), 295-311.
* Novak, J.D., & Canas, A. (2008). The Theory Underlying Concept Maps and How to Construct and Use Them. Technical Report IHMC CmapTools 2006-01 Rev 01-2008, Florida Institute for Human and Machine Cognition, available at: <http://cmap.ihmc.us/Publications/ResearchPapers/TheoryUnderlyingConceptMaps.pdf>
* Novak, J. D., & Gowin, D. B. (1984). *Learning how to learn*. New York: Cambridge University Press

**Descriptions and pedagogical uses:**

* Chalk Talk <http://www.nsrfharmony.org/system/files/protocols/chalk_talk_0.pdf>
* Concept map rubrics <http://teach.its.uiowa.edu/files/cft.uiowa.edu/files/Concept%20Map%20Rubrics.pdf>
* FLAG—Concept Mapping for Classroom Assessment <http://www.flaguide.org/cat/conmap/conmap1.php>
* Using Concept Maps <http://www.cmu.edu/teaching/assessment/assesslearning/conceptmaps.html>
* Joseph D. Novak and Alberto J. Cañas, YouTube interview series:

The Origins of Concept Mapping <http://youtu.be/ysA5XtV8p2E>

What Is Knowledge <http://youtu.be/wSHpvcSi7Rw>

What Is Meaningful Learning <http://youtu.be/JfqPMe1WsIo>

How to Introduce Students to Concept Mapping <http://youtu.be/ZBoKUoxCYo4>

The Importance of the Focus Question <http://youtu.be/kXNLQFYjau8>

The Importance of Linking Words <http://youtu.be/WKvXA9hYUG4>

Misconceptions <http://youtu.be/Lngbd-z3Ufs>

**Mapping software:**

* Cmap Tools http://cmap.ihmc.us/
* Webspiration Pro <http://www.webspirationpro.com/>
* Bubbl.us <https://bubbl.us/>
* Prezi <https://www.prezi.com>
* List of mapping software: <http://en.wikipedia.org/wiki/List_of_concept-_and_mind-mapping_software>

**Analog resources:**

Pens and paper, easel, poster paper, butcher paper, sticky/PostIt notes, white board/chalk board.