

REFERENCES

- Anderson, L.W and Karthwohl, D. R. (2001). *A Taxonomy for Learning, Teaching and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives*. Addison Wesley Longman, Inc
- Arikunto, S. (2013). *Dasar-Dasar Evaluasi Pendidikan*. Bandung: Bumi Aksara
- Ausubel, D. P. (2000). *The acquisition and retention of knowledge*. Dordrecht: Kluwer.
- Aydin, G. & Balim A., G. (2011). The Activities based on Conceptual Change Strategies Prepared by Science Teacher Candidates. *Western Anatolia Journal of Educational Sciences (WAJES)*, Dokuz Eylul University Institute, Izmir, Turkey ISSN 1308-8971.
- Basso, S. & Margarita S. (2004). *Teaching By Doing with Concept Maps: Integrating Plone And Cmaptools, Liases*. Department of Statistics and Applied Mathematics: University of Torino, Italy.
- Broggy, J., & McClelland, G. (2008). Undergraduate Students' Attitudes Towards Physics After A Concept Mapping Experience. *Proceeding of the Third Int. Conference on Concept Mapping, Tallinn, Estonia & Helsinki, Finland*.
- Cañas, A. J., Carff, R., Hill, G., Carvalho, M., Arguedas, M., Eskridge, T., et al. (2005). Concept maps: Integrating knowledge and information visualization. In S.-O. Tergan & T. Keller (Eds.), *Knowledge and information visualization: Searching for synergies* (pp. 205-219). Heidelberg/NY: Springer Lecture Notes in Computer Science.
- Cañas, A. J., Hill, G., & Lott, J. (2003). *Support for constructing knowledge models in CmapTools (Technical Report No. IHMC CmapTools 2003-02)*. Pensacola, FL: Institute for Human and Machine Cognition. [Online]. Available: <http://cmap.ihmc.us/Publications/WhitePapers/SupportforConstructingKnowledgeModelsonCmapTools.pdf> [17th June 2014]
- Candan, A. (2006). The effect of concept mapping on primary school students' understanding of the concepts of the force and motion. *Journal of Turkish Science Education*, 3(1): 66-75.
- Carff, R., Cañas, A. J., Hill, G Suri, N., Lott, J., Eskridge, T., Gómez, G., Arroyo, M., & Carvajal, R. (2004). CmapTools: A Knowledge Modeling and Sharing Environment. *Conference on Concept Mapping. Pamplona, Spain: Universidad Pública de Navarra*.

- Carvalho, M., Hewett, R. & Cañas, A. J. (2001). Enhancing Web Searches from Concept Map-based Knowledge Models, *SCI 2001: Fifth Multi-Conference on Systems, Cybernetics and Informatics*, Orlando, FL.
- Chiu, M.H. (2000). Reflections and Implications of Research on Conceptual Change. *Chinese Journal of Science Education* Vol.8, No.1, 1-34.
- Ciomoș, F. (2010), Students' perception on learning science. *Anuarul Institututîlului de pregătire didactică*.
- Creswell, J. W. (2012). *Educational Research Planning, Conducting, and Evaluating Quantitative and Qualitative Research*. Boston: Edward Brothers, Inc.
- Cutnell, J. (2007). *General Physics 7th Edition*. Wiley International Publish
- Dahar , Ratna Wilis. (2011). *Teori-teori Belajar dan Pembelajaran*. Bandung : PT Gelora Aksara Pratama Erlangga
- Esen, U. & Ömer, G. Effect of conceptual change approach accompanied with concept mapping on understanding of solution concepts. *Instructional Science*, 2005 p: 311–339.
- Granados, A., J. D. Pérez & C. Pérez, Canas, A. J. (2003). The network architecture of CmapTools, *Technical Report IHMC CmapTools 93-02*, Institute for Human and Machine Cognition.
- Gunstone, Richard F., (2002). *Constructivist Learning and the Teaching of Science*. Faculty of Science Education, Monash University.
- Hill, G., Cañas, A. J., Carff, R. & Suri, N. (2003). *CmapTools: A knowledge modeling and sharing toolkit*, *Technical Report IHMC CmapTools 93-01*, Institute for Human and Machine Cognition
- Karakuyu, Y. (2010). The Effect of Concept Mapping on Attitude and Achievement in A Physics Course. *International Journal of the Physical Sciences Vol. 5(6)*, pp. 724-737, June 2010
- Kern, C. & Crippen, K., J. (2008) *Mapping for Conceptual Change; Concept Mapping Activities Encourage Students to Develop Scientific Understanding*. University of Nevada, Las Vegas.
- Kinchin I., M. & Hay D., B (2000) *How a qualitative approach to concept map analysis can be used to aid learning by illustrating patterns of conceptual development*. University of Surrey, Guildford.
- Liang, L. L. & Gabel, D. (2005). Effectiveness of a Constructivist Approach to Science Instruction for Prospective Elementary Teachers. *International Journal of Science Education*, 27 (10), 1143-1162.

- Lin, C. H., Wu, P. L., Wu, W.H., Chen, C.Y., et al. (2010). Utilizing a Concept Map as The Teaching Strategy based on Conceptual Change Theory for The Course Information Technology and Society. *Joint International IGIP-SEFI Annual Conference 2010*, Trnava, Slovakia
- Lott, J., Cañas, A. J., Hill, G., & Suri, N. (2003). Permissions and Access Control in *CmapTools*. *Technical Report IHMC CmapTools 93-03*, Institute for Human and Machine Cognition
- Miller, N. (2008). Use of The *CmapTools* Recorder to Explore Acquisition of Skill in Concept Mapping. *Proc. of the Third Int. Conference on Concept Mapping* Helsinki, Finland 2004.
- Novak, J. D. (2002). Meaningful learning: The essential factor for conceptual change in limited or appropriate propositional hierarchies (LIPHS) leading to empowerment of learners. *Science Education*, 86(4): 548-571.
- Novak, J.D & Cañas A.J (2007). The Theory Underlying Concept Maps and How to Construct and Use Them. *Journal of Reflecting Education Vol. 3 No.1, November 2007* pp. 29-42
- Novak, J.D. (2003). A Science Education Research Program That Led to The Development of The concept Mapping Tool and A New Model for Education. *Proc. of the First Int. Conference on Concept Mapping* Pamplona, Spain 2004.
- Özdemir, G. & Clark, D., B. (2007). An Overview of Conceptual Change Theories. *Eurasia Journal of Mathematics, Science & Technology Education*, 2007, 3(4), 351-361
- Özkan, G. (2012). How Effective is “Conceptual Change Approach” In Teaching Physics? *Journal Of Educational And Instructional Studies in the World* May 2012, Volume: 2 Issue: 2 Article: 24 ISSN: 2146-7463.
- Palappu, P. (2007). Effects of Visual and Verbal Learning Styles on Learning. *Institute for Learning Styles Journal Volume 1*, Fall 2007: 34-39.
- Peraturan Menteri Pendidikan Dan Kebudayaan Nomor 68 Tahun 2013 Tentang Kerangka Dasar Dan Struktur Kurikulum Sekolah Menengah Pertama/Madrasah Tsanawiyah*. Jakarta: Departemen Pendidikan Nasional.
- Perez, A. L., Suero M. I, Montanero, M., & Pardo, P. J. (2004). Concept Maps: Theory, Methodology, Technology. *Proceedings of the First International Conference on Concept Mapping*. Pamplona.

- Posner, J.G., (1982). Accommodation of a Scientific Conception: Toward a Theory of Conceptual Change. *Journal Science Education* 66(2): 211-227. [Online]. Available: <http://onlinelibrary.wiley.com/doi/10.1002/sce.3730660207> [10th July 2014]
- Qarerah, A., O. (2010). The Effect of Using Concept Mapping in Teaching on the Achievement of Fifth Graders in Science. *Journal of Stud Home Communication Science*, 4(3): 155-160
- Ruiz-Primo MA, Shavelson R (1996). Problems and issues in the use of concept maps in science assessment. *Journal of Research in Science Teaching*, 33: 569–600
- Slameto. (2003). *Belajar dan Faktor-Faktor yang Mempengaruhinya*. Jakarta: Rineka Cipta.
- Stefan, M., & Ciomoş., F. (2010). The 8th And 9th Grades Students' Attitude towards Teaching And Learning Physics. *Acta Didactica Napocensia*, Volume 3 Number 3.
- Sumarwan, K., Kaniawati, I., Sopandi, W. (2013) *Belajar IPA Membuka Cakrawala Alam Sekitar*. Jakarta: PT Setia Purna Inves.
- Sugiyono. (2008). *Metode Penelitian Pendidikan: Pendidikan Kuantitatif, Kualitatif, dan R&D*. Bandung: PT Alfabeta
- Suratno, T. (2008). Konstruktivisme, Konsepsi Alternatif dan Perubahan Konseptual dalam Pendidikan IPA. *Jurnal Pendidikan Dasar* Nomor 10-Oktober 2008.
- Utari, S., Alfiani, Feranie, S., Aviyanti, L., Sari, I. M., Hasanah, L. (2013) Application of Learning Cycle 5e Model Aided Cmaptools-Based Media Prototype to Improve Student Conceptual mastery. *Applied Physics Research*; Vol. 5, No. 4; 2013
- Willerman, M., Harg, R.M. (2006). The concept map as an advance organizer. *Journal of Research in Science Teaching*, 28(8): 214-243.