

REFERENCES

- Ambrose, (2010), *How Learning Works*, Mc.Graw-Hill International, New York.
- Arends, R.I., (2009), *Learning to Teach*, Mc.Graw-Hill International, New York.
- Arifin, Z., (2009), *Evaluasi Pembelajaran*, PT. Remaja Rosdakarya, Bandung.
- Arikunto, S., (2006), *Dasar-Dasar Evaluasi Pendidikan*, Penerbit Bumi Aksara, Jakarta.
- Astuti, L.S., (2011), *Peningkatan Hasil Belajar Konsep Kesetimbangan Kimia Melalui Model Pembelajaran PBL (Problem Based Learning)*, Skripsi, Fakultas Ilmu Tarbiyah dan Keguruan, UIN, Jakarta.
- Barrows, H. S., (1982), *How to Use Problem Based Learning*, <http://Wianti.multiply.com/journal/item/7> (accessed on January 14,2014).
- Bloom, B. S., (1956), *Taxonomy of Educational Objectives, Handbook I: The Cognitive Domain*, David McKay Co Inc, New York.
- Boud, D., and Felletti, G., (1991), *The Challenge of Problem-Based Learning, Second Edition*, Kogan Page Limited, London.
- Chritian, M., and Pepple, T.F., (2012), Cooperative and individual learning strategiess as predictors of students' achievement in secondary school chemistry in Rivers State, *Journal Vocational Education & Technology* **9(2)**: 109 – 118.
- Cindy, E., and Silver, H., (2004), Problem-Based Learning: What abd How Do Students Learn?, *Educational Psychology Review* **16(3)**: 236.
- Deputi Menteri Sekretaris Negara Bidang Perundang-undangan, (2005), *Undangundang Republik Indonesia No 20 Tahun 2003 Tentang Sistem Pendidikan Nasional*, Lembaga Negara Republik Indonesia, Jakarta.

Duch, B.J, Groh, S.E., and Allen, D.E. (2001). *The power of problem-based learning: A practical how-to for teaching*, Sterling, VA: Stylus.

Fatokun, J.O., and Fatokun, K.V.F., (2013), A problem base learning application for the teaching of mathematics and chemistry in higher schools and tertiary education : An integrative approach, *Academic Journal Education Reseach and Reviews* **8(11)**: 663 – 667.

Haas, C. (1989). "*Seeing it on the screen isn't really seeing it*": *Computer writers' reading problems*. In G. Hawisher and C. Selfe (Eds.), *Critical perspectives on computers and composition instruction*. Teachers College Press, New York.

Hurlock, E., (1999), *Psikologi Perkembangan*, Terjemahan Istiwidayanti dan Soedjarwo, Erlangga, Jakarta.

Iriani, R., Suharto, B., and Fajar, (2009), Penggunaan Animasi 3d Dalam Pembelajaran Struktur Atom, *Jurnal Kopertis Wilayah XI Kalimantan* **7(11)**:4.

Jaya, I., (2010), *Statistik*, Cipta Pustaka, Medan.

Kelly, O. C., and Finlayson, O. E., (2007), Providing solutions through problem-based learning for the undergraduate 1st year chemistry laboratory, *Chemistry Education Research and Practice* **8(3)**: 347.

Kintsch, W., (1989), *Learning from text*. In L.B. Resnick (Ed.), *Knowing and learning: Essays in honor of Robert Glaser*. Hillsdale, NJ: Erlbaum.

Majid, A., and Dian, A., (2011), *Pendidikan Karakter Perspektif Islam*, Rosda, Bandung.

Mangunharja, A. M., (1986), *Mengembangkan kreativitas*, Kansius, Yogyakarta.

Munandar, U., (1977), *Creativity and Education. A Study of the Relationship Between Measures of Creative Thinking and a Number of Educational*

Variables in Indonesian Primary and Junior Secondary School,
University of Indonesia, Jakarta.

Munandar, U., (1999), *Mengembangkan Kreativitas Anak Berbakat*. Rineka Cipta, Jakarta.

Musbikin, I., (2006), *Mendidik Anak Kreatif Ala Einstein*, Mitra Pustaka, Yogyakarta.

Okinoglu, O., and Tandongan, R.O., (2007), The effects on problem-base active learning in science education on students' aachievement, attitude, and concept learning, *Eurasia Journal of Matematics, Science & Technology Education* **3(1)**: 71 – 81.

Priyatno, D., (2008), *Mandiri Belajar SPSS*, MediaKom, Yogyakarta.

Sanjaya, and Wina, (2008), *Strategi Pembelajaran Berorientasi Standar Proses Pendidikan*, Kencana, Jakarta.

Syahrial, H., (2006). *Sumbangsih Komputer dalam Industri Film*.
<http://www.jurnalcelebes.com/view> (accessed on January 2014)

Silitonga, P. M., (2011), *Metode Penelitian Pendidikan*, FMIPA, Universitas Negeri Medan, Medan.

Sinaga, H., (2012), *The Implementation of Problem Based Learning with Macromedia Flash to Increase Student's Achievement in Teaching of Acid & Base.*, Skripsi, FMIPA, Unimed, Medan.

Siswono, T. Y. E., and Rosyidi, A. H., Menilai Kreativitas Siswa dalam Matematika, *Prosiding Seminar Nasional Matematika dan Pendidikan Matematika di jurusan matematika FMIPA Unesa tahun 2005*: 1-3.

Situmorang, M., (2010), *Penelitian Tindakan Kelas (PTK) Untuk Mata Pelajaran Kimia*, Unimed, Medan.

- Slameto, (2010), *Belajar dan Faktor-faktor yang Mempengaruhinya*, Rineka Cipta, Jakarta.
- Shuler, and Charles F.,(2002), Application of pbl to clinical dental education. *Journal of the California Dental Association* **8**: 6-11.
- Sudjana, N., (2009), *Penilaian Hasil Proses Belajar Mengajar*, PT. Remaja Rosdakarya, Bandung.
- Sudrajat, A., (2010), *Pendidikan Karakter Di Sekolah*: <http://akhmadsudrajat.wordpress.com> (accessed on January 14, 2014).
- Suharta, (2012), *Model Pendidikan Karakter yang Terintegrasi dalam Perkuliahan Kimia Lingkungan sebagai Model Alternatif dalam Pengembangan Pendidikan Karakter di Universitas Negeri Medan*, Laporan Hasil Penelitian, FMIPA Universitas Negeri Medan, Medan.
- Suharta, and Luthan P. L., (2013). Application of Cooperative Problem-Based Learning Model to Develop Creativity and Foster Democracy, and Improve Student Learning Outcomes in Chemistry in High School, *Journal of Education and Practice* **4(25)**: 55-56.
- Suyanti, R.D., (2010), *Strategi Pembelajaran Kimia*, Graha Ilmu, Yogyakarta.
- Syafriani, D., (2012), *Pengembangan Model Pembelajaran Dalam Upaya Mmbentuk Kepribadian Yang Berkarakter Mulia Dan Hasil Belajar Yang Tinggi Pada Materi Bentuk Geometri Molekul*, Program Pascasarjana, Universitas Negeri Medan.
- White, H., (2001), Problem Based Learning, *Speaking of Teaching Winter* **11(1)**: 1-2.
- Yuzhy, W., (2003), Using Problem Based Learning in Teaching Analytical Chemistry, *The China Papers* **1**: 28-33.