

DAFTAR PUSTAKA

- Abruscato, Joseph & DeRosa Donald A. (2010). *Teaching Children Science- A Discovery Approach-7th*. Boston: Allyn & Bacon.
- Agustyaningrum, Nina. (2011). *Implementasi Model Pembelajaran Learning Cycle 5E untuk Meningkatkan Kemampuan Komunikasi Matematis Siswa Kelas IX B SMP Negeri 2 Sleman* [Online]. Tersedia: <https://core.ac.uk/download/pdf/11064953.pdf>. [September 2018]
- Anderson, L. W. & Karthwohl, D. R. (2001). *A Taxonomy for Learning, Teaching, and Assessing (A Revision of Bloom's Taxonomy of Educational Objectives)*. New York: Longman.
- Anderson, L. W. & Karthwohl. Penerjemah: Prihantoro. (2010). *Kerangka Landasan untuk Pembelajaran, Pengajaran, dan Asesmen*. Yogyakarta: Pustaka Pelajar.
- Anni. (2006). *Psikologi Belajar*. Semarang. Universitas Negeri Semarang Press.
- Arikunto, S. (2001). *Dasar-dasar Evaluasi Pendidikan*. Jakarta: Bumi Aksara.
- Becker, K. dan Park, K. (2011). *Effect of Integrative Approaches Among Science, Technology, Science, Engineering and Mathematics (STEM) Subject and Students Learning: A preliminary Meta-Analysis*. Journal of STEM Education, 12(5), hlm. 23-37.
- Bybee, W. R. et al. (2006). "The BSCS 5E Instructional Model: Origin, Effectiveness, and Application" [Online]. Tersedia: <http://www.bsos.org/pdf/bsos5eexesummary.pdf>.
- Bybee, W. R. & Trowbridge L. W. (1996). *Teaching Secondary School Science: Strategies for Developing Scientific Literacy*. New Jersey: Merrill Publishing

Ardin Yusufiansyah, 2019

PENERAPAN MODEL SIKLUS BELAJAR 5E DENGAN PENDEKATAN STEM PADA PEMBELAJARAN DASAR LISTRIK DAN ELEKTRONIKA

Universitas Pendidikan Indonesia | repository.upi.edu |
perpustakaan.upi.edu

- Bybee, W, R. (2013). *The Case for STEM Education Challenges and Opportunity*. Washington, DC: NSTA Press.
- California Department of Education. (2014). INNOVATE [Online]. Tersedia: <http://www.cde.ca.gov/pd/ca/sc/documents/innovative.pdf>. [September 2018]
- Calik, M. & Mehmet A. K. (2008). *Using Different Conceptual Change Methods Embedded within The 5E Model: A Sample Teaching for Heat and Temperature*. Journal of Physics Teacher Education. [Online]
- Creswell, J.W. (2014). *Research Design: Quantitative, Qualitative, and Mixed Methods Approaches*. United States of America: SAGE Publications
- Dasna, I. Wayan. (2005). *Kajian Implemntasi Model Siklus Belajar (Learning Cycle) dalam Pembelajaran Kimia*. Makalah Seminar Nasional MIPA dan Pembelajarannya. FMIPA UM – Dirjen Dikti Depdiknas.
- Djamarah. (2006). *Strategi Belajar Mengajar*. Jakarta: Rineka Cipta
- Djamarah, Syaiful Bahri, dan Aswan, Zain. (2010). *Strategi Belajar Mengajar*. Jakarta: Rineka Cipta
- Dugger, W.E. (2010). *Evolution of STEM in the United States* [Online]. Virginia. Tersedia: www.iteea.org/Resources/PressRoom/AustraliaPaper.pdf. [September 2018]
- Duran, M., dan Sendag, S. (2012). *A Preliminary Investigation into Critical Thinking Skills of Urban High School Students: Role of an IT/STEM Program*. Scientific Research, 3(2), hlm. 241-250.
- Fajaroh, Fauziatul dan Dasna, I Wayan. (2007). *Pembelajaran dengan Model Siklus Belajar (Learning Cycle)* [Online]. Tersedia: <https://lubisgrafura.wordpress.com/2007/09/20/pembelajaran-dengan-model-siklus-belajar-learning-cycle/>. [September 2018]

Ardin Yusfiansyah, 2019

PENERAPAN MODEL SIKLUS BELAJAR 5E DENGAN PENDEKATAN STEM PADA PEMBELAJARAN DASAR LISTRIK DAN ELEKTRONIKA

Universitas Pendidikan Indonesia | repository.upi.edu |
perpustakaan.upi.edu

- Figliano, Fred. (2007). *Strategies For Integrating STEM Content: A Pilot Case Study*. Tersedia: <https://vtechworks.lib.vt.edu/bitstream/handle/10919/36083/FigIThesisFinal.pdf?sequence=1>. [September 2018]
- Fraenkel, J.R., Wallen, N.E. dan Hyun, H.H. (2012). *How to Design and Evaluate Research in Education Eight Edition*. New York: McGraw Hill Company.
- Hake, R.R. (1998). *Interactive-engagement versus traditional methods: A sixthousand-student survey of mechanics test data for introductory physics courses*. American Journal of Physics, 6(1), hlm. 64-74.
- International Technology Education Association. (2000). *Standars for Tehnological Literacy Content for the Study of Technolog* [Online]. Tersedia: <https://www.iteea.org/File.aspx?id=42513&v=2a53e184>. [September 2018]
- Maisarah dan Roestrianingsih. (2010). *Peningkatan Hasil Belajar Siswa dengan Menggunakan Metode Peeam Pada Mata Pelajaran Keterampilan Dasar Komunikasi di SMK Negeri 1 Bogor Jurnal Ekonomi dan Pendidikan Vol.V (8), 150-162* [Online]. Tersedia:<https://jurnalmahasiswa.unesa.ac.id/article/17026/52/article.doc>. [September 2018]
- Malcon, Shirley & Fared, Michael. (2016). *Barriers and Opportunities for 2-Year and 4-Year STEM Degrees: Systemic Change to Support Students' Diverse Pathways*. Washington DC: The National Academies.
- Morrison, J. (2006). *TIES STEM Education Monograph Series, Attribute of STEM Education*. Baltimore, MD: TIES
- National Governors Association (NGA). (2009). *Building a Science, Technology, Engineering, and Math, Education Agenda*. New York: NGA Center.
- National Research Council. (1996). *National Science Education Standards* [Online].

Ardin Yusufiansyah, 2019

PENERAPAN MODEL SIKLUS BELAJAR 5E DENGAN PENDEKATAN STEM PADA PEMBELAJARAN DASAR LISTRIK DAN ELEKTRONIKA

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

Tersedia:<https://www.csun.edu/science/ref/curriculum/reforms/nse/s/nse-complete.pdf>. [September 2018]

- Purwanto. (2011). *Evaluasi Hasil Belajar*. Yogyakarta: Pustaka Belajar
- Qararch, A. (2012). *The Effect of Using LC Method in Teaching Science on The Education Achievement of The Sixth Grades*. International Journal education Vol 4(2).
- Quang, L.X. dkk. (2015). *Integrated Science, Technology, Engineering and Mathematics (STEM) Education through Active Experience of Designing Technical Toys in Vietnamese Schools*. British Journal of Education, Society and Behavioural Science, 11(2), hlm. 1-12.
- Rahayu, Puspita Indah. (2015). *Perbandingan Hasil Belajar Siswa Antara Pembelajaran Menggunakan PBL dan Discovery Learning Jurnal Pembelajaran Fisika*. 3(5):2
- Reeve, Edward M & Avery Zanj K. (2013). *Developing Effective STEM Professional Development Program*. Journal of Technology Education. 25(1).
- Sanders. (2009). *Integrating STEM Education: United Stated*. The Technology Teacher.
- Saprudin. (2004). *Pengembangan Model Pembelajaran Pemecahan Masalah Untuk Meningkatkan Kecakapan berpikir Rasional Siswa dalam Pembelajaran Fisika di SMP*. Bandung: UPI Bandung.
- Siswanto, Tri Budi. (2016). *Faktor-Faktor yang Mempengaruhi Hasil Belajar Siswa Pada Pembelajaran Praktik Kelistrikan Otomotif SMK di Kota Yogyakarta*. *Jurnal Pendidikan Vokaso*. Vol. VI (1), 111-120 [Online]. Tersedia: <https://journal.uny.ac.id/index.php/jpv/article/view/8118/6872>. [September 2018]
- Sudjana, Nana. (2010). *Dasar-Dasar Proses Belajar*. Bandung: Sinar Baru
- Sudjiono, Anas. (2011). *Pengantar Evaluasi Pendidikan*. Jakarta: PT. Raja Grasindo Persada,

Ardin Yusfiansyah, 2019

PENERAPAN MODEL SIKLUS BELAJAR 5E DENGAN PENDEKATAN STEM PADA PEMBELAJARAN DASAR LISTRIK DAN ELEKTRONIKA

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Sugiyono. Prof. Dr. (2009). *Metode penelitian Pendidikan*. Bandung: Alfabeta.
- Torlakson, Tom. (2014). *Innovate: A Blueprint for Science, Technology, Engineering, and Mathematics in California Public Education*. California. [Online]. Tersedia: <https://www.cde.ca.gov/pd/ca/sc/documents/innovate.pdf>. [September 2018]
- Tuna, A. (2013). *The Effect of 5E Model In Teaching. International Journal On New Trends In Education On Their Implication*. Vol 4 (1).
- Wena, Made (2009). *Strategi Pembelajaran Inovatif Kontemporer Suatu Tinjauan Konseptual Operasional*. Jakarta: Bumi Aksara
- Wena, Made. (2012). *Strategi Pembelajaran Inovatif Kontemporer: Suatu Tinjauan Konseptual Operasional*. Jakarta: Bumi Aksara

Ardin Yusfiansyah, 2019

PENERAPAN MODEL SIKLUS BELAJAR 5E DENGAN PENDEKATAN STEM PADA PEMBELAJARAN DASAR LISTRIK DAN ELEKTRONIKA

Universitas Pendidikan Indonesia | repository.upi.edu |
perpustakaan.upi.edu