

DAFTAR PUSTAKA

- American Association for the Advancement of Science [AAAS]. (1993). *Benchmarks for science literacy*. New York: Addison Wesley Lomman Inc.
- Anderson, L. W., Krathwohl D. R. (2014). Kerangka Landasan untuk Pembelajaran, Pengajaran, dan Asesmen. Yogyakarta: Pustaka Pelajar
- Anoiko. (2011). Creativity. Padiapress
- Appulembang, Y. N. (2017). Norma Kreativitas Menggunakan Torrance Test of Creativity Thinking untuk Anak Usia 6-12 Tahun. *Provita Journal Psikologi Pendidikan*, 9 (1), 41-45.
- Arikunto, S. (2016). *Dasar – dasar Evaluasi Pendidikan*. Jakarta: PT Bumi Aksara
- Bao, L. (2006). Theoretical comparisons of average normalized gain calculations. *American Journal of Physics*, 74(10), 917-922. doi:10.1119/1.2213632
- Beers, S. Z. (2011). *21st Century Skills: Preparing student for THEIS future*. Alexandria: ASDC.
- Breiner, J. M., dkk. (2012). What is STEM ? A Discussion about Conception of STEM in Education and Partnership. *School Science and Mathematics*. 112(1) 3-11.
- Budianto, A. M., Rohaeti, E. E. (2014). Mengembangkan Kemampuan Berfikir Kreatif dan Kemandirian Belajar Siswa SMA Melalui Pembelajaran Berbasis Masalah. *Jurnal Pengajaran MIPA*, 19 (2), 166-172.
- Bybee, R. W. (2013). *The Case for STEM Education - Challenges and Opportunities*. Virginia: NSTA Press.
- Cahyo, B. S., Sunanto, A., Puriyanta, E., (2013) IPA FISIKA UNTUK SMP?MTs KELAS VIII. Jakarta: Erlangga
- Croplay, A. J., (2017). Defining and Measuring Creativity: Are Creative Tests Worth Using?. *Roefer Review*, 23 (2) 72-79.
- Dahar, R.W. (2011). *Teori-Teori Belajar dan Pembelajaran*. Bandung: Erlangga.

Salma Fauziyyah, 2019

**PENERAPAN PEMBELAJARAN FISIKA BERBASIS STEM UNTUK
MENINGKATKAN PENGUASAAN KONSEP DAN KETERAMPILAN BERPIKIR
KREATIF SISWA SMP**

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

- Etikan, Ilker, Musa, S. A., Alkassim, R. S. (2016). Comparison of Convenience Sampling and Purposive Sampling. *American Journal of Theoretical and Applied Statistics*. 5(1) 1-4
- Fitriani, N., Gunawan, Sutrio. (2017). Berpikir Kreatif Dalam Fisika Dengan Pembelajaran Conceptual Understanding Procedures (CUPS). *Jurnal Pendidikan Fisika dan Teknologi*, 3 (1), 24-33.
- Fitriani, D., Kaniawati, I., Suwarma, I. R. (2017). Pengaruh Pembelajaran Berbasis STEM (Science, Thecnology, Engineering, and Mathematics) Pada Konsep Tekanan Hidrostatik Terhadap Casual Reasoning Siswa SMP. *Prosiding Seminar Pendidikan Fisika*, IV, 47-52.
- Forrester, J. (2008). Thinking Creatively; Thinking Critically. *Asean Socila Science Journal*, 4 (5), 100-105.
- Freeman, E (2016). Torrance Journal For Applied Creativity. Chicago : The Center for Gifted
- Gruszka, Aleksandra & Min Tang. (2017). The 4P's Creativity Model and its Application in Different Fields. Reaserch Gate.
- Hake, R. R. (1998). Interactive-Engagement Versus Traditional Methods: A Six-Thousand-Student Survey of Mechanics Test Data for Introductory Physics Courses. *American Journal of Physics*, 66(1), 64-74. doi:10.1119/1.18809
- Houston, J. (2007). Future skill demands: From a corporate consultant perspective. Presentation at the Workshop on Research Evidence Related to Future Demands, National Academies of Science, Washington, DC.
- Istidah, I., Yuliati, L., Zubaidah, S. (2016). Penguasaan Konsep Gerak pada Siswa SMP. *Pros. Semnas Pend. IPA Pascasarjana UM*, 1, 1006-1013.
- Kelley, T. R dan Knowles, J. G. (2016). A Conceptual Framwork for Integrated STEM Education. *International Journal of STEM Education*. Springer
- Khaerudin. (2016). Teknik Penskoran Tes Obyektif Model Pilihan Ganda. *Jurnal Madaniyah*, 185-204

Salma Fauziyyah, 2019

**PENERAPAN PEMBELAJARAN FISIKA BERBASIS STEM UNTUK
MENINGKATKAN PENGUASAAN KONSEP DAN KETERAMPILAN BERPIKIR
KREATIF SISWA SMP**

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

- Khalil, N. M., Osman, K. (2017). STEM-21CS Module: Fosteing 21st Century Skills Through Integrated STEM. *K-12 STEM Education*, 3(3)
- Kim, K. H. (2006). Can We Trust Creativity Tests ? A Review of the Torrance Tests of Creative Thinking (TTCT). *Creativity Research Journal*. 18 (1), 3-14.
- Kim, K. H. (2017). The Torrance Tests of Creative Thinking – Figural or Verbal: Which One Should We Use?. *Creativity- Theories Research and Aplication*, 4(2), 302-321
- Levy, F., dan R. Murnane. (2004). *The new division of labor: How computers are creating the next job market*. Princeton, NJ: Princeton University Press.
- Liliawati, W. (2011). Pembekalan Keterampilan Berfikir Kreatif Siswa SMA melalui Pembelajaran Fisika Berbasis Masalah. *Jurnal Pengajaran MIPA*, 16 (2), 93-98.
- Muliyani, R., dan kurniawan, Y. (2014). Profil Kemampuan Berfikir Kreatif Dan Peningkatan Hasil Belajar Kognitif Siswa Smp Melalui Pembelajaran Kognitif Tipe STAD. *Prosiding Seminar Nasional Fisika dan Pendidikan Fisika*, 5 (1), 117-124.
- Munandar, S. C. Utami. (1997). Mengembangkan Inisiatif dan Kreativitas Anak. *Universitas Indonesia*. 31-41
- National Academy of Engineering (NAE). 2012. The grand challenges of engineering. www.engineeringchallenges.org
- National Research Council (NRC). (2010). *Exploring the intersection of science education and 21st century skills*. Washington, DC: National Academies Press.
- National Research Council (NRC). (2010). *Exploring the intersection of science education and 21st century skills*. Washington, DC: National Academies Press.
- Nex Generation Science Standards (NGSS). (2013). *Afendix F - Science and Engineering Practices in the NGSS*.
- OECD. (2016). *PISA 2015 Results In Focus*. OECD Publishing.
- Ortiz, T. M. (2012). *Creativity and Arts Education In Primary School Children From Socioeconomically Disadvantaged*

Salma Fauziyyah, 2019

**PENERAPAN PEMBELAJARAN FISIKA BERBASIS STEM UNTUK
MENINGKATKAN PENGUASAAN KONSEP DAN KETERAMPILAN BERPIKIR
KREATIF SISWA SMP**

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

- Backgrounds*. Rotterdam: Master Thesis Art and Cultural Sciences Erasmus University Rotterdam.
- Parker, D. J. (1985). *Training for Fluency, Flexibility, and Originality in Native Indian Children*. University of British Columbia.
- Purwaningrum, J. P. (2016) Mengembangkan Kemampuan Berpikir Kreatif Matematis Melalui Discovery Learning Berbasis Scientific Approach. *Jurnal Refleksi Edukatika*, 6(2), 145-157
- Prakoso, A. S. (2016). Profil Kreativitas dan Peningkatan Penguasaan Konsep Siswa SMP pada Materi Energi dalam Pembelajaran IPA Berbasis STEM. (Sekripsi). Bandung: Universitas Pendidikan Indonesia
- Safilu. (2010). Hakekat dan Strategi Pembelajaran Biologi untuk Memberdayakan Keterampilan Berpikir Siswa. *Jurnal Pendidikan Biologi*, 2 (1), 1-11.
- Salemi, M. L. (2017). Utilizing Fluency, Flexibility, Originality, and Elaboration to Enhance Creativity and Vocabulary Use for Improving Reading Comprehension in Third through Sixth Grade Students. Research Gate
- Sari, I. M., Sumiati, E., Siahaan, P., (2013). Analisis Kemampuan Berpikir Kreatif Siswa SMP dalam Pembelajaran Pendidikan Teknologi Dasar. *Jurnal Pengajaran MIPA*. 18(1), 61-68
- Sugiyono. (2016). *Metodologi Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif dan R & D*. Bandung: Alfabeta.
- Sungkawan, R, dan Motlan. (2013). Analisis Penguasaan Konsep Awal Fisika Pada Pembelajaran Menggunakan Model Advance Organizer Berbasis Eksperimen Terhadap Hasil Belajar Fisika. *Jurnal Pendidikan Fisika*, 2 (2), 73-80.
- Surya, J. P., Abdurahman., Wahyudi, I., (2018). Implementation of The STEM Learning to Improve the Creative Thinking Skills of High School Student in the Newton Law of Gravity Material. *Journal of Komodo Science Education*. 01, 106-116
- Suwarma, I. R. (2015). "Balloon Powered Car" Sebagai Media Pembelajaran IPA Berbasis STEM (science, technology, engineering and mathematics). *Prosiding Simposium Nasional Inovasi dan Pembelajaran Sains*, 373-376.

Salma Fauziyyah, 2019

**PENERAPAN PEMBELAJARAN FISIKA BERBASIS STEM UNTUK
MENINGKATKAN PENGUASAAN KONSEP DAN KETERAMPILAN BERPIKIR
KREATIF SISWA SMP**

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

- Tendrita, M., Susriati, M., Zubaidah, S. (2016). Pemberdayaan Keterampilan Berpikir Kreatif melalui Model Remap Think Pair Share. *Proceeding Biology Education Conference*, 13 (1), 285-291.
- TIMSS & PIRLS. (2012). *TIMSS 2011 International Results in Science*. TIMSS&PIRLS International Study Center: Lynch School of Education, Boston College.
- Torrance, E. P. (1965). Scientific Views of Creativity and Factors Affecting Its Growth. *Creativity and Learning*, 94(3), 663-681.
- Torrance, E. Paul. (1965). *Scientific Views of Creativity and Factors Affecting Its Growth*. Csmbridge: MIT publisher.
- Torrance, E. P. (1972). Predictive Validity of the Torrance Tests of Creative Thinking. *The Journal of Vreative Behavior*, 6(4), 236-262
- Tsaniyah, A. B., dan Poedjiastoeti, S. (2017). Moge Learning Model to Improve Creative Thinking Skills. *International Journal of Education and Research*, 5(1), 165-172)
- Tsupros, N., R. Kohler, J. Hallinen. (2009.) *STEM education: A Project To Identify The Missing Components*. A collaborative study by the IU 1 Center for STEM Education and Carnegie Mellon University.
- Türkmen, H. (2015). Creativity Thinking Skills Analyzes of Vocational High School Students. *Journal of Educational and Instructional Studies*, 5 (10), 74-84.
- Vogel, T., (tt). Evolution of the 4Ps of Creativity. *Breakthoug Thinking*
- White, D. W. (2014). What Is STEM Education and Why Is Important?. *Florida Association of Teacher Educators Journal*, 1 (14), 1-9.
- Winarni, J., Zubaidah, S., Supriyono, K. H. (2016). STEM : Apa, Mengapa, dan Bagaimana. *Pros. Semnas Pend. IPA Pascasarjana UM*, 6, 976-984.

Salma Fauziyyah, 2019

**PENERAPAN PEMBELAJARAN FISIKA BERBASIS STEM UNTUK
MENINGKATKAN PENGUASAAN KONSEP DAN KETERAMPILAN BERPIKIR
KREATIF SISWA SMP**

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