

DAFTAR PUSTAKA

- Arikunto, S. (2012). *Dasar-dasar Evaluasi Pendidikan Edisi 2*. Jakarta: Bumi Aksara
- Baharin, N., Kamarudin, N., & Manaf, U. K. A. (2018). Integrating STEM Education Approach in Enhancing Higher Order Thinking Skills. *International Journal of Academic Research in Business and Social Sciences*, 8(7). doi:10.6007/ijarbss/v8-i7/4421.
- Becker, K., & K. P. (2011). Effects of Integrative Approaches among Science, Technology, Engineering, and Mathematics (STEM) Subjects on Students' Learning: A Preliminary Meta-Analysis. *Journal of STEM Education* 12 (5&6): 23-37.
- Beers, S. Z. (2011). 21 St Century Skills: Preparing Students for Their Future. *In STEM*, 1-6.
- Campbell, N. A. (2004). *BIOLOGI Edisi Kelima Jilid 3*. Jakarta: Penerbit Erlangga.
- Chien, P.L.K., & Lajium, D.A.D. (2016). The Effectiveness of Science, Technology, Engineering and Mathematics (STEM) Learning Approach among Secondary School Students. *Internasional Conference on Education and Psychology*: 95-104.
- Dinni, H. N. (2018). HOTS (Higher Order Thinking Skills) dan Kaitannya dengan Kemampuan Literasi Matematika. *PRISMA, Prosiding Seminar Nasional Matematika*, 170-176. <http://seminar.uad.ac.id/index.php/quantum/article/view/287>.
- Harun, U. B. (2020). Project-Based Learning Integrated to STEM (STEM-PJBL) to Enhance Arabic Learning HOTS-Based. *Jurnal Pendidikan Dasar Islam*, XII(1):140-150.
- Hashim, H., Ali, M. N., & Shamsudin, M. A. (2017). Infusing High Order Thinking Skills (HOTs) through Thinking Based Learning (TBL) during ECA to enhance students interest in STEM. *International Journal of Academic Research in Business and Social Sciences*, 7(11). doi:10.6007/ijarbss/v7-i11/3557
- Heong, Y. M., Othman, W. B., Yunos, J. B. M., Kiong, T. T., Hasan, R. B., & Mohamad, M. M. B. (2011). The Level of Marzano Higher Order Thinking Skills among Technical Education Students. *Internasional Journal of Social Science and Humanity*, 1(2):121-125.

- Imaningtyas. 2013. *Biologi untuk SMA/MA Kelas X*. Jakarta: Penerbit Erlangga.
- Kelley, T. R., & Knowles, J. G. (2016). A conceptual framework for integrated STEM education. *International Journal of STEM Education*, 3(1). doi:10.1186/s40594-016-0046-z
- Kusuma, M. D., Rosidin, U., Abdurrahman, A., & Suyatna, A. (2017). The Development of Higher Order Thinking Skill (Hots) Instrument Assessment In Physics Study. *IOSR Journal of Research & Method in Education (IOSRJRME)*, 07(01), 26–32. doi:10.9790/7388-0701052632.
- Lusyana, E., & Wangge, M. (2016). Increasing Higher Order Thinking Skill to Build Student's Character by Using Mathematical Reasoning. *Proceeding Education of Mathematics and Science* (May): 119-126
- Moore, T. J., Glancy, A. W., Tank, K. M., Kersten, J. A., Smith, K. A., & Stohlmann, M. S. (2014). A Framework for Quality K-12 Engineering Education: Research and Development. *Journal of Pre-College Engineering Education Research (J-PEER)*, 4(1). doi:10.7771/2157-9288.1069
- Muharomah, D. R. (2017). *Pengaruh Pembelajaran STEM (Science, Technology, Engineering and Mathematics) Terhadap Hasil Belajar Peserta Didik*. Skripsi. Pendidikan Biologi, Universitas Islam Negeri Syarif Hidayatullah, Jakarta.
- Patresia, I., Silitonga, M., & Ginting, A. (2020). Developing biology students' worksheet based on STEAM to empower science process skills. *JPBI (Jurnal Pendidikan Biologi Indonesia)*, 6(1). doi:10.22219/jpbi.v6i1.10225
- Permanasari, A. (2016). STEM Education: Inovasi dalam Pembelajaran Sains. *In Seminar Nasional Pendidikan Sains*, Surakarta, 23-34.
- Prasetyani, E., Hartono, Y., & Susanti, E. (2016). Kemampuan Berpikir Tingkat Tinggi Siswa Kelas XI dalam Pembelajaran Trigonometri Berbasis Masalah di SMA Negeri 18 Palembang. *Jurnal Gantang*, 1(1), 34–44. doi:10.31629/jg.v1i1.4
- Rosidin, U. (2019). A Combined HOTS-Based Assessment/STEM Learning Model to Improve Secondary Students' Thinking Skills: A Development and Evaluation Study. *Journal for the Education of Gifted Young Scientists*, 7(3), 435–448. doi:10.17478/jegys.518464.
- Silvia, N., Suryanti, & Idris T. (2018). Analisis Higher Order Thinking Skills (HOTS) Siswa SMAN 7 Pekanbaru Tahun Ajaran 2017/2018. *In Seminar Nasional Pendidikan Biologi FKIP UIR*, 59-67. <http://dx.doi.org/10.1186/s13662-017-1121>.

- Stohlmann, M., Moore, T., & Roehrig, G. (2012). Considerations for Teaching Integrated STEM Education. *Journal of Pre-College Engineering Education Research*, 2(1), 28–34. doi:10.5703/1288284314653.
- Syukri, M., Halim, L., & Meerah, T.S. (2013). Pendidikan STEM dalam Entrepreneurial Science Thinking (EScit): Satu Perkongsian Pengalaman dari UKM untuk ACEH. *Aceh Development Internasional Conference*. (26-28 March):105-112.
- Torlakson, T. (2014). *Innovate A Blueprint for STEM Education-Science (CA Dept of Education)*. California: California Dedicated to Education Foundation.
- White, D. W. (2014). What is STEM Education and Why is it Important?. *Florida Association of Teacher Educators Journal*. 1(14):1-9.
- Yusuf, I., & Widyaningsih, S. W. (2019). HOTS profile of physics education students in STEM-based classes using PhET media. *Journal of Physics: Conference Series*, 1157, 032021. doi:10.1088/1742-6596/1157/3/032021