

## DAFTAR PUSTAKA

- Abdurrahman, M. (2003). Pendidikan bagi anak berkesulitan belajar.
- Abraham, et. al. (1992). "Understanding and Misunderstanding of Eight Grades of Five Chemistry Concept in Text Book". *Journal of Research in Science Teaching*. 29(12).
- Agus Suharjana. (2008). Mengenal Bangun Ruang dan Sifat-Sifatnya di Sekolah Dasar. *Jurnal Pendidikan*, 2(1), 5.
- Agustin, K., Hadi, S., & Yuliati, L. (2021). Pengaruh Model The 5E Learning Cycle terhadap Penguasaan Konsep dan Penyelesaian Masalah Pecahan Siswa Kelas V Sekolah Dasar. *Jurnal Pendidikan: Teori, Penelitian, dan Pengembangan*, 6 (1), 43-49.
- Akçayır, G., & Akçayır, M. (2018). The flipped classroom: A review of its advantages and challenges. *Computers & Education*, 126, 334-345.
- Alsancak Sirakaya, D. (2015). The Effect of Flipped Classroom Model on Academic Achievement, Self-Directed Learning Readiness and Motivation. (Doctoral dissertation). *Ankara, Turkey: Gazi University*.
- Anderson, L. W., & Krathwohl, D. R. (2010). A Taxonomy for Learning, Teaching, and Assesing (L. W. Anderson, D. R. Krathwohl, P. W. Airasian, K. A. Cruikshank, R. E. Mayers, P. R. Pintrich, J. Raths, & M. C. Wittrock (eds.); Abridged E). *Addison Wesley Longman, Inc.*
- Anita P Aryuna, Dyah R A & Dwi M (2017). Penerapan pembelajaran learning cycle 5e sebagai upaya untuk meningkatkan respon positif dan pemahaman siswa. *Jurnal Pendidikan Matematika dan Matematika*.
- Asikin, M. (2013). Model Innomatts (Innovative Mathematics Teaching study): Modul Pelatihan. *Semarang: Universitas Negeri Semarang*.
- Aşıksoy, G., & Ozdamli, F. (2017). The flipped classroom approach based on the 5E learning cycle model-5ELFA. *Croatian Journal of Education: Hrvatski časopis za odgoj i obrazovanje*, 19(4), 1131-1166.
- Bada & Olusegun, S. 2015. Constructivism Learning Theory: A Paradigm for Teaching and Learning. *IOSR Journal of Research & Method in Education (IOSR-JRME) Volume 5, Issue 6 Ver. I (Nov. - Dec. 2015), PP 66-70*.
- Bahkrunnisa, N., Abidin, Z., & Sari, N.T. (2021). Analisis Kemampuan Pemahaman Konsep Relasi dan Fungsi Berbasis Teori APOS Siswa Kelas VIII MTsN 1 Aceh Barat Daya. *Jurnal Ilmiah Pendidikan dan Pembelajaran Matematika*. Vol. 1(2), 100-112.
- Baki, A., & Güveli, E. (2008). Evaluation of a web based mathematics teaching material on the subject of functions. *Computers & Education*, 51(2), 854-863.
- Baker, J. W. (2000). The "Classroom Flip": Using Web Course Management Tools to Become the Guide by the Side. *Paper presented at the the 11th*

*International Conference on College Teaching and Learning*, Jacksonville, FL

- Balci, C. (2006). Conceptual change text oriented instruction to facilitate conceptual change in rate of reaction concepts. *Tesis S2 School of Natural and Applied Sciences of Middle East Technical University*.
- Barmby, Patrick, David Bolden, and Lynn Thompson. (2014). 53 Journal of Chemical Information and Modeling Understanding and Enriching Problem Solving in Primary Mathematics. *Northwich: Critical Publishing Ltd*.
- Basal, Ahmet. (2015). The Implementation of a Flipped Classroom in Foreign Language Teaching. *Turkish Online Journal of Distance*. 16 (4): 28-34
- Baya'a, NF, Daher, WM, & Anabousy, AA (2019). Pengembangan integrasi guru matematika In-service TIK dalam komunitas praktek: Teori Teaching-in-Context. *Jurnal Internasional Teknologi Emerging dalam Pembelajaran (Online)* , 14 (1), 125.
- Bergmann, J., & Sams, A. (2014). Flipping for mastery. *Educational Leadership*, 71(4), 24-29.
- Bergmann, J., & Sams, A. (2012). Flip Your Classroom, Reach Every Student in Every Class Every Day. *Publisher, ISTE & ASCD*.
- Bristol, T. J. (2014). Educate, excite, engage. *Teaching and Learning in Nursing*, 9, 43-46. [https:// doi.org/10.1016/j.teln.2013.11.002](https://doi.org/10.1016/j.teln.2013.11.002)
- Bodur, E. (2006). The Effect of the Constructive Approach on Student Success in the Computer Assisted Physics Teaching. (Master's Thesis). *Sakarya, Turkey: Sakarya University*.
- Budprom W, Paitool S, Adisak S. (2010). Effects of Learning Eanviromental Education Using the 5E-Learning Cycle with MultipleIntelligences DQG 7HDFKHU¶V +DQGERRN \$\$\$SURDFK RQ Learning Achievement, Basic Science Process Skills and Critical Thinking of Grade 9 Students. *Pakistan Journal of Social Sciences* 7(3): 200-204.
- Butt, A. (2014). Student Views on the Use of a Flipped Classroom Approach: Evidence From Australia. *Business Education*, 6(1), 33-44.
- Bybee, R. W., Taylor, J. A., Gardner, A., van Scotter, P., Powell, J. C., Westbrook, A., & Landes, N.(2006). The BSCS 5E instructional model: Origins and effectiveness. *BSCS*. 5, 88-98.
- Bybee, R. W. (2009). The BSCS 5E Instructional model and 21st Century skills. *BSCS*.
- Bybee, R. W. (2014). The BSCS 5E instructional model: Personal reflections and contemporary implications. *Science and Children*, 51(8), 10-13.
- Cai, J., & Nie, Æ. B. (2007). Problem solving in Chinese mathematics education : research and practice, 459-473. <https://doi.org/10.1007/s11858-007-0042-3>.

- Cevikbas, M., & Kaiser, G. (2020). Flipped classroom as a reform-oriented approach to teaching mathematics. *ZDM - Mathematics Education*, 52(7), 1291–1305. <https://doi.org/10.1007/s11858-020-01191-5>.
- Chen, Y., Wang, Y., Kinshuk, & Chen, N. S. (2014). Is FLIP enough? or should we use the FLIPPED model instead?. *Computers and Education*, 79, 16–27. <https://doi.org/10.1016/j.compedu.2014.07.004>.
- Clark, K. M. (2012). History of mathematics: Illuminating understanding of school mathematics concepts for prospective mathematics teachers. *Educ. Stud. Math.* 81 67-84.
- Creswell, John W. 2008. Educational Research, planning, conducting, and evaluating qualitative dan quantitative approaches. *London: Sage Publications*.
- Dafir, A. (2011). Pengaruh Pendekatan Konstruktivisme Terhadap Peningkatan Pemahaman Matematika Siswa. Prosiding). PGRI Palembang. Tidak diterbitkan.
- Deslauriers, L., Schelew, E., & Wieman, C. (2011). Improved learning in a large-enrollment physics class. *Science*, 332(6031), 862-864. <https://doi.org/10.1126/science.1201783>
- Duffin, J. M., & Simpson, A. P. (2000). A search for understanding. *The Journal of Mathematical Behavior*, 18(4), 415-427.
- Even, R., & Tirosh, D. (2002). Teacher knowledge and understanding of students' mathematical learning. *Handbook of international research in mathematics education*, 219-240.
- Ersoy, E. (2016). Problem solving and its teaching in mathematics. *The Online Journal of New Horizons in Education*, 6(2), 79–87.
- Fadhilah, R.N., Sary, R.M., & Wakhyudin. H. (2019). “Miskonsepsi Siswa Pada Materi Hubungan Antar Garis Di Kelas IV Sekolah Dasar”. *SENDIKA, Universitas PGRI Semarang*, 1(1). <http://conference.upgris.ac.id/index.php/sendika/article/view/387/232>
- Farida, F. (2015). Mengembangkan Kemampuan Pemahaman Konsep Peserta Didik Melalui Pembelajaran Berbasis VCD. *Al-Jabar: Jurnal Pendidikan Matematika*, 6(1), 25–32
- Fajaroh, Fauziatul dan I Wayan Dasna. (2007). Pembelajaran Dengan Model Siklus Belajar (Learning Cycle). <http://lubisgrafura.wordpress.com/2007/09/20/pembelajaran-dengan-modelsiklus-belajar-learning-cycle/> (25 Oktober 2021).
- Fautch, J. M. (2015). The flipped classroom for teaching organic chemistry in small classes: is it effective?. *Chemistry Education Research and Practice*, 16(1), 179-186. <https://doi.org/10.1039/C4RP00230J>.

- Findlay-Thompson, S., & Mombourquette, P. (2014). Evaluation of a flipped classroom in an undergraduate business course. *Business Education & Accreditation*, 6(1), 63-71.
- Flipped Learning Network (FLN) (2014). The Four Pillars of F-L-I-P™. <http://flippedlearning.org//site/Default.aspx?PageID=92>
- Fulton, Kathleen. (2012). Upside Down and Inside Out: Flip Your Classroom to Improve Student Learning. *Learning & Leading with Technology*. Retrieved from: <http://thejournal.com/articles/2012/04/11/the-flippedclassroom.aspx>.
- Gay, E.Mills, G., & W.Airasian, P. (2012). Educational Research. *In วารสารสง คมศาสตร์ราช ภาคร.*
- Gaughan, J. E. (2014). The Flipped Classroom in World History. *The History Teacher*, 47(2), 221-244.
- Hagerman, C.L. (2012). Effects of the 5E Learning Cycle on Student Content Comprehension and Scientific Literacy, *Montana : Montana State University*.
- Hartatik, A. F., & Siti Kamsiyati, S. (2017). Peningkatan Pemahaman Konsep Sifat-Sifat Bangun Ruang Melalui Model Learning Cycle (Pembelajaran Bersiklus) Pada Siswa Sekolah Dasar. *Didaktika Dwija Indria*, 5(4).
- Herala A, Vanhala E, Knutas A, & Ikonen J. 2016. Teaching programming with flipped classroom method: a study from two programming courses. *In Proceedings of the 15th Koli Calling Conference on Computing Education Research: ACM*.
- Hendriana, H. (2014). Meningkatkan kemampuan matematik siswa melalui pembelajaran berbasis masalah dan strategi think talk and write. *Edusentris*, 1(1), 27.
- Heris Hendriana, Euis Eti Rohaeti, and Utari Sumarmo, Hard Skills Dan Soft Skills Matematika Siswa. (Bandung: PT. Refika Aditama, 2017). hlm.3
- Herdian, (2010). Kemampuan Pemahaman Matematika. Tersedia pada <http://herdy07.wordpress.com/2010/05/27/kemampuan-pemahamanmatematis/>. Diakses pada tanggal 17 November 2021.
- Hidayat, F. A. (2014). analisis miskonsepsi siswa kelas XA pada materi struktur atom di SMA muhammadiyah kota jayapura tahun ajaran 2013/2014. Skripsi Tidak Dipublikasikan.
- Hiebert, J., & Carpenter, T. P. (1992). Learning and teaching with understanding. In D. A. Grouws (Ed.), *Handbook of research on mathematics teaching and learning* (pp. 65–97). New York: Macmillan.
- Höft, Lars, and Sascha Bernholt. 2019. “Longitudinal Couplings between Interest and Conceptual Understanding in Secondary School Chemistry: An Activity-Based Perspective”. *International Journal of Science Education*. Vol. 41(5), pp: 607–27.

- Hsieh, Jun Scott Chen, Wen-Chi Vivian Wu, and Michael W. Marek. (2016). Using the Flipped Classroom to Enhance EFL Learning. *Article in Computer Assisted Language Learning*. Vol 30(1), 1-21
- Hurlock, E. (1978). *Personality development*. Tokyo: *McGraw-Hill Publishing Company, Ltd*
- Hwang, G. J., Lai, C. L., & Wang, S. Y. (2015). Seamless flipped learning: A mobile technology-enhanced flipped classroom with effective learning strategies. *Journal of Computers in Education*, 2(4), 449–473.
- Juniantari, M., Pujawan, I. G. N., & Widhiasih, I. D. A. G. (2018). Pengaruh pendekatan flipped classroom terhadap pemahaman konsep matematika siswa SMA. *Journal of Education Technology*, 2(4), 197-204.
- Jennings, Sue & R, Dunne.1999. *Math Stories,Real Stories, Real-life Stories*. diakses dari <http://www.ex.ac.uk/telematics/T3/maths/actar01.htm>. pada tanggal 20 Juli 2022.
- Kamarullah.(2017). Pendidikan Matematika di Sekolah Kita. *Al Khawarizmi*, Vol. 1, No. 1, Juni 2017.
- Kazu, I. Y. & Bosu, E. (2012). Turkish vocational school students’ perception of 5E teaching model. *International Journal of Learning and Development*. 2(6). 221-237. Tersedia di [www.macrothink.org/ijld](http://www.macrothink.org/ijld).
- Kellinger, J. J. (2012). The flipside: Concerns about the “New literacies” paths educators might take. *The Educational Forum*, 76(4), 524-536. <https://doi.org/10.1080/00131725.2012.708102>
- Kharis, SAA, Salsabila, E., & Haeruman, LD (2021, Februari). Pengaruh Pemahaman Konsep Matematika dan Penalaran Matematika terhadap Kemampuan Literasi Matematika. Dalam *Jurnal Fisika: Seri Konferensi* (Vol. 1747, No. 1, hal. 012042). Penerbitan IOP.
- Kim, M. K., Kim, S. M., Khera, O., & Getman, J. (2014). The Experience of three flipped classrooms in an urban university: An Exploration of design principles. *The Internet and Higher Education*, 22, 37-50.
- Klemp, T. (2020). Early mathematics–teacher communication supporting the pupil’s agency. *Education 3-13*, 48(7), 833-846.
- Kesumawati, N. (2008). Pemahaman konsep matematik dalam pembelajaran matematika. *Semnas Matematika dan Pendidikan Matematika*, 2(3), 231-234.
- Kuo, F. R., Hwang, G. J., & Lee, C. C. (2012). A Hybrid approach to promoting students’ web-based problem-solving competence and learning attitude. *Computers & Education*, 58(1), 351-364.
- Lazakidou, G., & Retalis, S. (2010). Using computer supported collaborative learning strategies for helping students acquire selfregulated problem-solving skills in mathematics. *Computers & Education*, 54(1), 3-13. doi:10.1016/j.compedu.2009.02.020

- Letina, A. (2015). Effectiveness of Inquiry-Based Science and Social Studies Teaching in the Development of Students' Scientific Competence. *Croatian Journal of Education*, 18(3), 665-696.
- Lenhard, J., & Otte, M. (2018). The Applicability of Mathematics as a Philosophical Problem : Mathematization as Exploration. *Foundations of Science*, 23(4), 719–737. <https://doi.org/10.1007/s10699-018-9546-2>.
- Leinwarnd, Steve. et al. (2014). National Council of Teachers of Mathematics.Principles ro actions: Ensuring Mathematical success for all. Reston, VA: *Author*.
- Lincoln, Y.S & Guba, E.G. 1985. Naturalistic Inquiry. Beverly Hills, California: *SAGE Publications Inc*.
- Liu, T.-C., Peng, H., Wu, W.-H.,& Lin, M.-S. (2009). The Effects of Mobile Natural-science Learning Based on the 5E Learning Cycle: A Case Study. *Educational Technology & Society*, 12 (4), 344–358.
- Lo, C. K. (2017). Toward a fipped classroom instructional model for history education: a call for research. *Int J Cult Hist*, 3(1), 36–43
- Lomibao, L. S., Luna, C. A., & Namoco, R. A. (2016). The influence of mathematical communication on students' mathematics performance and anxiety. *American Journal of Educational Research*, 4(5), 378-382.
- Love, B., Hodge, A., Grandgenett, N., & Swift, A. W. (2014). Student learning and perceptions in a flipped linear algebra course. *International Journal of Mathematical Education in Science and Technology*, 45(3), 317–324. <https://doi.org/10.1080/0020739X.2013.822582>
- Love, B., Hodge, A., Corritore, C., & Ernst, D. C. (2015). Inquiry-based learning and the flipped classroom model. *Primus*, 25(8), 745-762.
- Maifi, YK, & Ahmad, A. (2021, Mei). Pemahaman siswa terhadap konsep matematika dan kepercayaan dirinya melalui model discovery learning. Dalam *Jurnal Fisika: Seri Konferensi* (Vol. 1882, No. 1, hal. 012081). Penerbitan IOP.
- Mariyaningsih, Nining & Hidayati, Mistina. (2018). Bukan Kelas Biasa, Teori dan Praktik Berbagai Model dan Metode Pembelajaran Menerapkan Inovasi Pembelajaran di Kelas Inspiratif. *Surakarta: Kekata Group*.
- Martin, D. J. (2006). Elementary Science Methods. A Constructivist Approach. *Thomson Higher Education* 10. Belmont: Davis Drive.
- Mason, G. S., Shuman, T. R., & Cook, K. E. (2013). Comparing the effectiveness of an inverted classroom to a traditional classroom in an upper-division engineering course. *IEEE Transactions on Education*, 56(4), 430-435.
- Mawaddah, Siti., Maryanti, Ratih., (2016), Kemampuan Pemahaman Konsep Matematis Siswa SMP dalam Pembelajaran Menggunakan Model Penemuan

- Terbimbing (Discovery Learning), *EDU-MAT Jurnal Pendidikan Matematika* 4 (1), 76-85.
- Michell, J. (1999). *Measurement in Psychology*. Cambridge: Cambridge University press. doi: 10.1017/CBO9780511490040
- Miles, M. B., Huberman, A. M., Huberman, M. A., & Huberman, M. (1994). *Qualitative data analysis: An expanded sourcebook*. Sage.
- Milman, N. B. (2012). The flipped classroom strategy: What is it and how can it best be used?. *Distance Learning*, 9(3), 85.
- Missildine, K., Fountain, R., Summers, L., & Gosselin, K. (2013). Flipping the classroom to improve student performance and satisfaction. *Journal of Nursing Education*, 52(10), 597-599.
- Mok, H. (2014). Teaching tip: The flipped classroom. *Journal of Information Systems Education*, 25(1), 7–11. Retrieved from [http://ink.library.smu.edu.sg/sis\\_research](http://ink.library.smu.edu.sg/sis_research).
- National Council of Teachers of Mathematics. (2000). *Principles and standards for school mathematics*. Virginia: NCTM.
- National Council of Teachers of Mathematics (NCTM). (2006). *Principles and standards for school mathematics*. Retrieved from <http://www.nctm.org/standards/>
- Negoro, S.T dan Harahap, B (2013) *Ensiklopedia Matematika*. Jakarta : Ghalia Indonesia.
- Nopasari, W., Ikhsan, M., & Johar, R. (2020). Peningkatan pemahaman dan disposisi matematis siswa SMP melalui model learning cycle 5E. Dalam *Jurnal Fisika: Seri Konferensi* (Vol. 1460, No. 1, hal. 012011). Penerbitan IOP.
- Novitasari, W. (2014). *Pengaruh Model Pembelajaran Learning Cycle terhadap Pemahaman Konsep Matematika Siswa Kelas X SMA Negeri 15 Padang Tahun Pelajaran 2013/2014 (Disertasi Doktor, Universitas Negeri Padang)*.
- Ogan, G. C., & Williams, C. (2015). Flipped Classroom Versus a Conventional Classroom in the Learning of Mathematics. *British Journal of Education*, 3(6), 71-77.
- Omotayo S. A. & Adeleke J.O. (2017). The 5E Instructional Model: A Constructivist Approach For Enhancing Student' Learning Outcomes In Mathematics. *JISTE*, Vol. 21, No. 2
- Ozmen, H. (2011). Turkish Primary Students' Conceptions about the Particulate Nature of Matter. *International Journal of Environmental and Science Education*, 6(1), 99-121.
- Pauweni, K. A., Usman, K., Abdullah, A. W., & Rusydiy, R. (2019). Deskripsi Pemahaman Konsep Matematika pada Materi Bangun Ruang Sisi Lengkung. *Euler: Jurnal Ilmiah Matematika, Sains dan Teknologi*, 7(2), 37-44.

- Peraturan Menteri Pendidikan Dan Kebudayaan Nomor 21 Tahun 2016 Tentang Standar Isi Pendidikan Dasar Dan Menengah. Jakarta: *Depdiknas*
- Permendikbud (2016). Peraturan Menteri Pendidikan Dan Kebudayaan Nomor 24 Tahun 2016 Tentang Kompetensi Inti Dan Kompetensi Dasar Pelajaran Pada Kurikulum 2013 Pada Pendidikan Dasar Dan Pendidikan Menengah.
- Pesman, H., & Eryilmaz, A. (2010). Development of a three-tier test to assess misconceptions about simple electric circuits. *Journal of Educational Research*, 103(3), 208–222. <https://doi.org/10.1080/00220670903383002>
- Peterson, R., Treagust, D. F., & Garnett, P. (1986). Identification of secondary students' misconceptions of covalent bonding and structure concepts using a diagnostic instrument.
- Purba, D. A. (2022). Analisis Kemampuan Pemahaman Konsep Matematis Siswa dalam Model Pembelajaran Flipped Classroom materi Perbandingan di Kelas VII SMP Negeri 7 Muaro Jambi. (*Doctoral dissertation, Universitas Jambi*).
- Purnamasari, M. (2017). Upaya Meningkatkan Hasil Belajar Matematika Terhadap Konsep Bangun Ruang Materi Luas dan Volume Balok dan Kubus Menggunakan Metode Drill SMP Islam Al-Ghazali Kelas VIII. *Jurnal Pendidikan Matematika Dan Matematika*, 3(1), 45–52
- Putra, MA., Jaeng, M., & Sukayasa. (2016). Analisis Kesalahan Siswa Kelas VII SMP Al-Azhar Mandiri Palu dalam Menyelesaikan Soal Cerita Pada Materi Luas dan Keliling Bangun Datar. *Jurnal Elektronik Pendidikan Matematika Tadulak*, 3(3).  
<http://jurnal.untad.ac.id/jurnal/index.php/JEPMT/article/download/7196/5787>
- Qarareh, A. O. (2012). The Effect of Using the Learning Cycle Method in Teaching Science on the Educational Achievement of the Sixth Graders. *Science Education Journal*. Vol 4(2): 123-132.
- Ramadhani, N., (2012), Pengaruh model pembelajaran 5E terhadap Hasil Belajar di SMA Laksamana Nartadinata, *Jurnal Pendidikan Fisika* Vol. 1 (1) : 2252-732X.
- Rahman, A. A., Aris, B., Mohamed, H., & Zaid, N. M. (2014). The influences of Flipped Classroom: A meta analysis. *Paper presented at the 2014 IEEE 6th Conference on Engineering Education (ICEED 2014)*, Kuala Lumpur, Malaysia.
- Ranjan, S., & Padmanabhan, J. (2018). 5E approach of constructivist on achievement in mathematics at upper primary level. *Educational Quest*, 9(3), 239-245.
- Rich, K. M., & Yadav, A. (2020). Applying levels of abstraction to mathematics word problems. *TechTrends*, 64(3), 395-403.
- Rifa'i, A dan Anni, C.T. (2012). Psikologi Pendidikan. *Semarang: UPT UNNES*

*Press.*

- Rochmiyati, S., Wijayanto, Z., & Supriadi, D. (2020). A needs analysis of flipped classroom-based mathematics learning model. *PalArch's Journal of Archaeology of Egypt/Egyptology*, 17(5), 69-93.
- Roehl, A., Reddy, S. L., & Shannon, G. J. (2013). The flipped classroom: An opportunity to engage millennial students through active learning strategies. *Journal of Family & Consumer Sciences*, 105(2), 44-49.
- Ronnis, Diane.(2000). Problem-based learning for math and science:integrating inquiry and the internet. *Illinois: Skylight Professional Development*.
- Rosmalia, L. P. (2016). Miskonsepsi Pembelajaran Matematika Kelas IV Semester II di Sekolah Dasar. Skripsi Tidak Dipublikasikan, 2016.
- Sagala, Syaiful. (2009). Konsep dan Makna Pembelajaran. *Bandung: Rineka Cipta*
- Santrock, J.W.(2007).Psikologi Pendidikan. *Jakarta : Kencana*.
- Santrock, John. 2011. Educational Psychology. 5th ed. *New York: McGraw-Hill*.
- Saputra, MEA, & Mujib, M. (2018). Efektivitas Model Flipped Classroom Menggunakan Video Pembelajaran Matematika terhadap Pemahaman Konsep Desimal: *Jurnal Matematika* , 1 (2), 173-179.
- Sari, W. R. (2016). Pengembangan Perangkat Pembelajaran Bangun Ruang Di Smp Dengan Pendekatan Pendidikan Matematika Realistik. *Jurnal Riset Pendidikan Matematika*, 3(1), 109.  
<https://doi.org/10.21831/jrpm.v3i1.10407>
- Schallert, S., Lavicza, Z., & Vandervieren, E. (2022). Merging flipped classroom approaches with the 5E inquiry model: a design heuristic. *International Journal of Mathematical Education in Science and Technology*, 53(6), 1528-1545.
- Septian, A., & Ramadhanty, CL (2020). Peningkatan pemahaman konsep matematika siswa SMP melalui model pembelajaran kooperatif tipe jigsaw. *Wacana Akademika: Majalah Ilmiah Kependidikan* , 4 (1), 56-63.
- Shadiq, F., & Mustajab, N. A. (2011). Modul matematika SD program BERMUTU: penerapan teori belajar dalam pembelajaran matematika di SD.
- Siboro, Beatrix.(2017). The Effort To Improve VII Grade The Students Mathematical Problem Solving Ability Through Problem Based Learning On Arithmetic In SMP Negeri 1 Bilah Hulu. *Undergraduate thesis, Unimed*.
- Sierpinska, A. (2005). On practical and theoretical thinking and other false dichotomies in mathematics education. In *Activity and sign* (pp. 117-135). *Springer, Boston, MA*.
- Singer, F. M. (2013). Problem-posing research in mathematics education : new questions and directions. *Educn Stud Math*, 83(1), 1-7.  
<https://doi.org/10.1007/s 10649-013-9478-2>.

- Skemp, R. R. (1976). Relational understanding and instrumental understanding. *Mathematics teaching*, 77(1), 20-26.
- Sole, FB, & Wilujeng, I. (2013). Pengaruh implementasi 4-E learning cycle terhadap pengetahuan, keterampilan proses dasar, dan sikap ilmiah IPA siswa SDK Kererobbo. *Jurnal Prima Edukasia*, 1 (1), 43-50.
- Song, Y., & Kapur, M. (2017). How to Flip the classroom – “productive failure or traditional Flipped classroom” pedagogical design? *Educational Technology & Society*, 20(1), 292–305. <http://www.jstor.org/stable/jeductechsoci.20.1.292>.
- Soomro, Abdul Qadeer., Qaisrant, Muhammad., Nasim, Rawat., (2010) Teaching Physics Through Learning Cycle Model, An Experimental Study, *Journal Of Education Researsch*, 13(2) 5-18.
- Sugiyono. (2018). Metode Penelitian Kuantitatif. Bandung: Alfabeta
- Suherman, 2006:55. Suherman, E. & Winataputra, U.S. 1992. Strategi Belajar Mengajar Matematika. *Jakarta: Universitas trebuka*.
- Sulistyaningsih, Dwi. (2014). Keefektifan Model Pembelajaran Cooperative Inntegrated Reading And Composition Dalam Meningkatkan Kemampuan Koneksi Matematik. *JKPM*, Volume 1 Nomor 1 Januari 2014. ISSN : 2339-2444. <https://jurnal.unimus.ac.id/>
- Sumarmo, U.(1987). Kemampuan Pemahaman dan Penalaran Matematika Siswa SMA dikaitkan dengan Kemampuan Penalaran Logik Siswa dan Beberapa Unsur Proses Belajar Mengajar. *Disertasi*. UPI: Tidak diterbitkan.
- Thorndike, RM, and Thorndike-Christ, TM (2009). Measurement and Evaluation in Psychology and Education. *Edinburgh: Pearson Education*.
- Trianto. (2012). Model Pembelajaran Terpadu. (*Jakarta: PT Bumi Aksara*).
- Trowbridge, L.W., Bybee, R.W., & Powell, J. C. (2004). Teaching secondary school science. (8th ed.). Upper Saddle River, NJ: *Pearson Prentice Hall*
- Tuna, A., Kacar, A. (2013). “The effect of 5E Learning Cycle Model in Teaching Trigonometry on Students’ Academic Achievement and The Permanence of Their Knowledge”. *International Journal on New Trends in Education and Their Implications*. Vol 4. Hal 73-87.
- Turgut, S., & Gülşen Turgut, . (2018). Pengaruh pembelajaran kooperatif pada prestasi matematika di kalkun studi meta-analisis.
- Utami, R. (2017). Model Pembelajaran Berbasis Masalah dengan Langkah Penyelesaian Berdasarkan Polya dan Krulik-Rudnick Ditinjau dari Kreativitas Siswa, 1(1), 82–98.
- Wandini, R. R. & Banurea, O, K. (2019). Pembelajaran Matematika untuk Calon Guru MI/SD. *Medan:CV. Widya Puspita*.
- Wenna, M. (2009). Strategi pembelajaran inovatif kontemporer: Suatu tinjauan konseptual operasional. *Jakarta: Bumi Aksara*.

- Wibowo, A. 2010. Penerapan Model Pembelajaran Siklus Belajar (Learning Cycle) 5E dalam Meningkatkan Hasil Belajar Siswa Pada Matapelajaran Teknologi Informasi dan Komunikasi (Penelitian Kuasi Eksperimen Terhadap Siswa Kelas VII SMPN 1 Lembang Tahun Ajaran 2009/2010). *Laporan Penelitian (tidak diterbitkan)*. UPI.
- Winarsih, W., Hidayat, D., & Abadi, A. P. (2019). Penerapan Model Pembelajaran Learning Cycle 5E dalam Meningkatkan Kemampuan Pemahaman Konsep Matematis Siswa SMP. *Prosiding Sesiomadika*, 1(1b).
- Winkel, I. R. 2000. Psikologi Pendidikan dan Evaluasi Belajar. *Jakarta: Pt.Gramedia*.
- Xiu, Y., & Thompson, P. (2020). Flipped university class: a study of motivation and learning. *J Inform Technol Educ*, 19, 41–63
- Yang, Z., Yang, X., Wang, K., Zhang, Y., Pei, G., & Xu, B. (2021). The Emergence of Mathematical Understanding: Connecting to the Closest Superordinate and Convertible Concepts. *Frontiers in Psychology*, 12, 525493.
- Yenni and Risna K (2016). Pengaruh model pembelajaran learning cycle 5e terhadap pemahaman dan koneksi matematis siswa smp. *Jurnal Pendidikan Matematika* 1.
- Yenti, I. N. (2016). Pendekatan kontekstual (CTL) dan implikasinya dalam pembelajaran matematika. *Ta'dib*, 12(2).
- Yulianah, L., Ni'mah, K., & Rahayu, DV (2020). Analisis kemampuan pemahaman konsep matematika siswa berbantuan media schoology. *Jurnal Turunan: Jurnal Matematika Dan Pendidikan Matematika* , 7 (1), 39-45.
- Yulianti, Y., & Wulandari, D. (2021). Flipped Classroom : Model Pembelajaran untuk Mencapai Kecakapan Abad 21 Sesuai Kurikulum 2013. *Jurnal Kependidikan: Jurnal Hasil Penelitian dan Kajian Kepustakaan di Bidang Pendidikan, Pengajaran dan Pembelajaran*, 7(2), 372-384. doi:<https://doi.org/10.33394/jk.v7i2.3209>
- Zahro, S. M. R., Sunardi, S., Suwito, A., Susanto, S., & Safrida, L. N. (2021). The Pengembangan Perangkat Pembelajaran Materi Bangun Ruang Sisi Lengkung Berbasis Etnomatematika Berbantuan Aplikasi Google Form sebagai Penunjang Pembelajaran Daring. *KadikMA*, 12(3), 125-133.
- Zheng, L., Bhagat, KK, Zhen, Y., & Zhang, X. (2020). Efektivitas flipped classroom terhadap prestasi belajar dan motivasi belajar siswa. *Jurnal Teknologi Pendidikan & Masyarakat* , 23 (1), 1-15.