

**ANALISIS LITERASI MATEMATIS DAN *SELF EFFICACY*  
BERDASARKAN GAYA BELAJAR**

**TESIS**

Diajukan untuk memenuhi sebagian syarat untuk  
memperoleh gelar Magister Pendidikan Matematika



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Sebuah tesis yang diajukan untuk memenuhi salah satu syarat memperoleh gelar  
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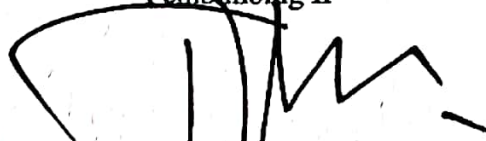
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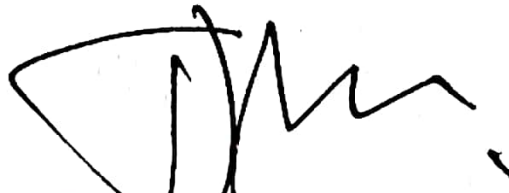
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## ABSTRAK

“Analisis Literasi Matematis dan Self Efficacy berdasarkan Gaya Belajar”

Husna Fatwana (2002295). Program Studi Magister Pendidikan Matematika Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam. Universitas Pendidikan Indonesia.

Penelitian ini dilatarbelakangi oleh literasi matematis siswa yang masih tergolong rendah sehingga peneliti menyarankan pembelajaran yang memperhatikan tingkat *self efficacy* dan gaya belajar yang siswa miliki untuk memudahkan siswa memahami materi matematika. Tujuan penelitian ini untuk memperoleh gambaran mengenai literasi matematis yang dipengaruhi oleh tingkat *self efficacy* dan gaya belajar yang dimiliki. Sampel dalam penelitian ini terdiri dari siswa kelas XI SMA N 1 Gandapura, Aceh dan dipilih menggunakan random sampling. Instrument penelitian yang digunakan berupa angket *self efficacy*, angket gaya belajar dan soal literasi matematis. Penelitian ini menggunakan pendekatan kuantitatif dengan metode kausal komparatif dan menggunakan teknik analisis data *Structural Equation Model - Partial Least Square* (PLS-SEM) dengan *software* SmartPLS. Hasil penelitian menunjukkan bahwa gaya belajar visual berpengaruh secara signifikan terhadap literasi matematis, gaya belajar audio tidak berpengaruh secara signifikan terhadap literasi matematis, gaya belajar kinestetik tidak berpengaruh secara signifikan terhadap literasi matematis, tingkat *self efficacy* berpengaruh secara signifikan terhadap literasi matematis. Gaya belajar visual berpengaruh secara signifikan terhadap literasi matematis melalui *self efficacy*. Gaya belajar audio berpengaruh secara signifikan terhadap literasi matematis melalui *self efficacy*. Gaya belajar kinestetik berpengaruh secara signifikan terhadap literasi matematis melalui *self efficacy*.

**Kata Kunci:** Literasi matematis, *Self Efficacy*, Gaya Belajar

## **ABSTRACT**

*Analysis of Mathematical Literacy and Self Efficacy based on Learning Style”*

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*This research is motivated by students' mathematical literacy which is still relatively low, so researchers suggest learning that pays attention to the level of self-efficacy and learning styles that students have to make it easier for students to understand mathematical material. The purpose of this study is to obtain an overview of mathematical literacy which is influenced by the level of self-efficacy and learning style one has. The Samples in this study consisted of class XI students at SMA N 1 Gandapura, Aceh and were selected using random sampling. The research instrument used was a self-efficacy questionnaire, a learning style questionnaire and mathematical literacy questions. This study uses a quantitative approach with comparative causal methods and uses data analysis techniques Structural Equation Model - Partial Least Square (PLS-SEM) with SmartPLS software. The results showed that the visual learning style has a significant effect on mathematical literacy, the audio learning style has no significant effect on mathematical literacy, the kinesthetic learning style has no significant effect on mathematical literacy, the level of self-efficacy has a significant effect on mathematical literacy. Visual learning styles have a significant effect on mathematical literacy through self-efficacy. Audio learning styles have a significant effect on mathematical literacy through self-efficacy. Kinesthetic learning styles have a significant effect on mathematical literacy through self-efficacy.*

**Keywords:** *Mathematical Literacy, Self Efficacy, Learning Style*

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## **LAMPIRAN**

## DAFTAR PUSTAKA

- Abdurrahman, S., & Kibtiyah, A. (2021). Strategi Mengatasi Masalah Kesulitan Belajar Siswa Dengan Memahami Gaya Belajar Siswa (Studi Kasus Di Ma Al-Ahsan Bareng). *Jurnal Pendidikan Tambusai*, 5(3), 6444–6454.
- Abidin, Y., Mulyati, T., & Yunansah, H. (2021). *Pembelajaran literasi: Strategi meningkatkan kemampuan literasi matematika, sains, membaca, dan menulis*. Bumi Aksara.
- Abrar, A. I. P. (2015). Jenis-Jenis Belajar Matematika. *Al-Khwarizmi : Jurnal Pendidikan Matematika dan Ilmu Pengetahuan Alam*, 3(1), Article 1. <https://doi.org/10.24256/jpmipa.v3i1.218>
- Alagumalai, S., & Buchdahl, N. (2021). *PISA 2012: Examining the influence of prior knowledge , effects on achievements in mathematical literacy processes – Interpret , employ and formulate*. <https://doi.org/10.1177/00049441211031674>
- Alawiyah, Z. (2021). *Pengaruh Gaya Belajar dan Self Efficacy terhadap Kemampuan Penalaran Matematis (Penelitian terhadap Peserta Didik Kelas VIII di SMPN 1 Sukahening)* [Sarjana, Universitas Siliwangi]. <https://doi.org/10/daftar%20pustaka.pdf>
- Alawiyah, Z., Somanataya, A. G., & Mulyani, E. (2022). Influence Gaya Belajar, Self efficacy dan Pengaruhnya terhadap Kemampuan Penalaran Matematis. *Jurnal Kongruen*, 1(1), Article 1.
- Amaliya, I., & Fathurohman, I. (2022). Analisis Kemampuan Literasi Matematika ditinjau dari Gaya Belajar Siswa SDN Mangunjiwan 1 Demak. *JRPD (Jurnal Riset Pendidikan Dasar)*, 5(1), Article 1. <https://doi.org/10.26618/jrpd.v5i1.7294>
- Amin, M. (2016). Pengaruh mind map dan gaya belajar terhadap hasil belajar matematika siswa. *Tadris: Jurnal Keguruan Dan Ilmu Tarbiyah*, 1(1), 85–92.
- Ananda, E. R., & Wandini, R. R. (2022). Analisis Kemampuan Literasi Matematika Siswa Ditinjau dari Self Efficacy Siswa. *Jurnal Obsesi : Jurnal Pendidikan Anak Usia Dini*, 6(5), Article 5. <https://doi.org/10.31004/obsesi.v6i5.2659>
- Apipah, S., Kartono, & Isnarto. (2018). An analysis of mathematical connection ability based on student learning style on visualization auditory kinesthetic (VAK) learning model with self-assessment. *Journal of Physics: Conference Series*, 983, 012138. <https://doi.org/10.1088/1742-6596/983/1/012138>



- Apipah, S., & Kartono, K. (2017). Analisis Kemampuan Koneksi Matematis Berdasarkan Gaya Belajar Siswa pada Model Pembelajaran Vak dengan Self Assessment. *Unnes Journal of Mathematics Education Research*, 6(2), Article 2.
- Aulia, R., & Nurdibyanandaru, D. (2020). Proses Pencapaian Self Efficacy pada Mahasiswa Tunanetra. *Jurnal AL-AZHAR Indonesia Seri Humaniora*, 5(4), 210–219.
- Bandura, A. (1977a). *Self-efficacy: Toward a Unifying Theory of Behavioral Change*. 84(2), 191–215.
- Bandura, A. (1977b). Self-efficacy: Toward a unifying theory of behavioral change. *Psychological Review*, 84, 191–215. <https://doi.org/10.1037/0033-295X.84.2.191>
- Bandura, A. (1995). *Self Efficacy in Changing Societies*.
- Bandura, A. (2010). Self-efficacy -Bandura. *The Corsini Encyclopedia of Psychology*, 1–3.
- Barbieri, C. A., Rodrigues, J., Dyson, N., & Jordan, N. C. (2020). Improving fraction understanding in sixth graders with mathematics difficulties: Effects of a number line approach combined with cognitive learning strategies. *Journal of Educational Psychology*, 112(3), 628–648. <https://doi.org/10.1037/edu0000384>
- Bellon, E., Fias, W., & De Smedt, B. (2019). More than number sense: The additional role of executive functions and metacognition in arithmetic. *Journal of Experimental Child Psychology*, 182, 38–60. <https://doi.org/10.1016/j.jecp.2019.01.012>
- Bernard, J., Chang, T.-W., Popescu, E., & Graf, S. (2017). Learning style Identifier: Improving the precision of learning style identification through computational intelligence algorithms. *Expert Systems with Applications*, 75, 94–108.
- Botha, H., Putten, S. Van, Botha, H., & Putten, S. Van. (2018). How Mathematical Literacy Teachers Facilitate Mathematisation in Modelling Situations How Mathematical Literacy Teachers Facilitate Mathematisation in Modelling Situations. *African Journal of Research in Mathematics, Science and Technology Education*, 0(0), 1–10. <https://doi.org/10.1080/18117295.2018.1437337>
- Boud, D. (2000). Sustainable assessment: Rethinking assessment for the learning society. *Studies in Continuing Education*, 22(2), 151–167. <https://doi.org/10.1080/713695728>

- Brozo, W. G., Moorman, G., Meyer, C., & Stewart, T. (2013). Content area reading and disciplinary literacy: A case for the radical center. In *Journal of Adolescent and Adult Literacy* (Vol. 56, Issue 5, pp. 353–357). <https://doi.org/10.1002/JAAL.153>
- Bruner, J. S. (1986). *Actual Minds, Possible Worlds* (Cambridge, MA, Harvard University).
- Carney, M. B., Brendefur, J. L., & John, S. (2014). *Statewide Mathematics Professional Development: Teacher Knowledge, Self-Efficacy, and Beliefs—Michele B. Carney, Jonathan L. Brendefur, Keith Thiede, Gwyneth Hughes, John Sutton*, 2016. <https://journals.sagepub.com/doi/full/10.1177/0895904814550075>
- Cheung, K. (2017). The effects of resilience in learning variables on mathematical literacy performance: A study of learning characteristics of the academic resilient and advantaged low achievers in Shanghai, Singapore, Hong Kong, Taiwan and Korea. *Educational Psychology*, 37(8), 965–982.
- Claessens, A., Duncan, G., & Engel, M. (2009). Kindergarten skills and fifth-grade achievement: Evidence from the ECLS-K. *Economics of Education Review*, 28(4), 415–427. <https://doi.org/10.1016/j.econedurev.2008.09.003>
- Clausen-May, T. (2005). *Teaching maths to pupils with different learning styles*. Sage.
- Cuevas, J. (2015). Is learning styles-based instruction effective? A comprehensive analysis of recent research on learning styles. *Theory and Research in Education*, 13(3), 308–333.
- Cundy, C., & Rollett, R. (1961). *Cundy & Rollett*. Oxford University Press.
- Daik, A. K. V., Abi, A. M., & Bien, Y. I. (2020). Analisis Gaya Belajar Matematika Pada Siswa Kelas Vii Smp Negeri Oebaki. *RANGE: Jurnal Pendidikan Matematika*, 2(1), 18–24. <https://doi.org/10.32938/jpm.v2i1.538>
- Damayanti, A. (2012). *Kemampuan Self-Efficacy dalam Pembelajaran Matematika*. [https://www.academia.edu/10432252/Kemampuan\\_Self\\_Efficacy\\_dalam\\_Pembelajaran\\_Matematika](https://www.academia.edu/10432252/Kemampuan_Self_Efficacy_dalam_Pembelajaran_Matematika)
- Delić, H. (2020). *The analysis of learning styles among high school students*. January. <https://doi.org/10.14706/JEH2019222>
- Delone, W. H., & McLean, E. R. (2003). The DeLone and McLean Model of Information Systems Success: A Ten-Year Update. *Journal of Management Information Systems*, 19(4), 9–30. <https://doi.org/10.1080/07421222.2003.11045748>

- Dewey, J. (1944). *Art as Experience*. New York, NY: Perigee, 2005.. *Democracy And Education*. New York, NY: MacMillan Publishing.
- Dewey, J. (2022). *How we think*. DigiCat.
- Dewi, I., & Indrawati, K. R. (2014). Perilaku mencatat dan kemampuan memori pada proses belajar. *Jurnal Psikologi Udayana*, 1(2), 241–250.
- Dewi, N. R. (2022). *Pengaruh Model Discovery Learning Berbantuan Google Classroom terhadap Kemampuan Pemecahan Masalah Matematis dan Self efficacy Siswa Smp* [PhD Thesis]. FKIP UNPAS.
- Dorça, F. A., Araújo, R. D., de Carvalho, V. C., Resende, D. T., & Cattelan, R. G. (2016). An automatic and dynamic approach for personalized recommendation of learning objects considering students learning styles: An experimental analysis. *Informatics in Education*, 15(3), 45–62. <https://doi.org/10.15388/infedu.2016.03>
- Duncan, G. J., Dowsett, C. J., Claessens, A., Magnuson, K., Huston, A. C., Klebanov, P., Pagani, L. S., Feinstein, L., Engel, M., Brooks-Gunn, J., Sexton, H., Duckworth, K., & Japel, C. (2007). School Readiness and Later Achievement. *Developmental Psychology*, 43(6), 1428–1446. <https://doi.org/10.1037/0012-1649.43.6.1428>
- Einar, M. S., Roger, A. F., & Robert, M. K. (2015). *Mathematics achievement and self-efficacy: Relations with motivation for mathematics*.
- Erawati, N. K., & Putri, N. W. S. (2019). Analisis Kemampuan Komunikasi Matematis Mahasiswa dalam Penyelesaian Masalah ditinjau dari Gaya Belajar. *Prosiding SENAMA PGRI*, 1, 50–59.
- Evers, K., & Chen, S. (2021). Effects of automatic speech recognition software on pronunciation for adults with different learning styles. *Journal of Educational Computing Research*, 59(4), 669–685.
- Fachri, M., Paloloang, B., Juandi, D., Tamur, M., Paloloang, B., & Adem, A. (2021). Meta Analisis: Pengaruh Problem-Based Learning terhadap Kemampuan Literasi Matematis Siswa di Indonesia Tujuh Tahun Terakhir. *Aksioma: Jurnal Program Studi Pendidikan Matematika*, 9, 851–864. <https://doi.org/10.24127/ajpm.v9i4.3049>
- Fadillah, R., Budiyono, & Nurhasanah, F. (2021). The Analysis of Students' Metacognition in Solving Math Problems Based on Self-Efficacy. *IOP Conference Series: Earth and Environmental Science*, 1808(1). <https://doi.org/10.1088/1742-6596/1808/1/012062>

- Fadillah, R., & Nurhasanah, F. (2021). The Analysis of Students' Metacognition in Solving Math Problems Based on Self-Efficacy. *Journal of Physics: Conference Series*, 1808(1), 012062.
- Fatimah, S. (2018). Siti Pendampingan Perencanaan Karir dalam meningkatkan Self Efficacy Siswa SMK. *Psikodidaktika: Jurnal Ilmu Pendidikan, Psikologi, Bimbingan Dan Konseling*, 3(1), 1–11.
- Ferdiansyah, A., Rohaeti, E. E., & Suherman, M. M. (2020). Gambaran *Self Efficacy* Siswa terhadap Pembelajaran. *Fokus (Kajian Bimbingan & Konseling Dalam Pendidikan)*, 3(1), Article 1. <https://doi.org/10.22460/fokus.v3i1.4214>
- Firdaus, H. P. E. (2017). *Analisis kesalahan mahasiswa dalam menyelesaikan masalah matematika berdasarkan gaya belajar*.
- Firdausi, Y. N. (2017). *Universitas Negeri Semarang Semarang 2017*. 0024078603, 1–52.
- Fitri, I. (2017). Peningkatan self efficacy terhadap matematika dengan menggunakan modul matematika kelas viii smp negeri 2 bangkinang. *Jurnal Cendekia: Jurnal Pendidikan Matematika*, 1(2), 25–34.
- Fitriani, K., & Maulana, M. (2016). Meningkatkan Kemampuan Pemahaman dan Pemecahan Masalah Matematis Siswa SD Kelas V melalui Pendekatan Matematika Realistik. *Mimbar Sekolah Dasar*, 3(1), Article 1. <https://doi.org/10.53400/mimbar-sd.v3i1.2355>
- Fuadiah, N. F. (2016). Miskonsepsi sebagai hambatan belajar siswa dalam memahami matematika. *Jurnal Ilmu Pendidikan (JIP) STKIP Kusuma Negara*, 7(2), 87–92.
- Furinghetti, F., & Morselli, F. (2009). *Every unsuccessful problem solver is unsuccessful in his or her own way: Affective and cognitive factors in proving* | SpringerLink. <https://link.springer.com/article/10.1007/s10649-008-9134-4>
- Gabriel, F., Signolet, J., & Westwell, M. (2018). A machine learning approach to investigating the effects of mathematics dispositions on mathematical literacy. *International Journal of Research & Method in Education*, 41(3), 306–327. <https://doi.org/10.1080/1743727X.2017.1301916>
- Galela, A. (2021). *Analisis Kemampuan Pemecahan Masalah dalam Menyelesaikan Soal Operasi Aljabar Berdasarkan Gaya Belajar Siswa Kelas VII MTs Hasyim Asy'ari Ambon* [PhD Thesis]. IAIN Ambon.
- Goyal, M., Yadav, D., & Tripathi, A. (2015). Fuzzy approach to detect learning style using McCarthy model as a tool for e-learning system. *2015 4th*

*International Symposium on Emerging Trends and Technologies in Libraries and Information Services*, 295–300.  
<https://doi.org/10.1109/ETTLIS.2015.7048215>

- Hadi, D. L. P., Usodo, B., & Slamet, I. (2020). Digital measurement of student learning style: Using smartphones for self-evaluation. *Journal of Physics: Conference Series*, 1469(1), 012077. <https://doi.org/10.1088/1742-6596/1469/1/012077>
- Hamdi, S. (2017). *Metode Pembelajaran Matematika*. Universitas Hamzanwadi Press.
- Handayani, F. (2013). Hubungan self efficacy dengan prestasi belajar siswa akselerasi. *Character: Jurnal Penelitian Psikologi.*, 1(2).
- Hanipa, A., & Sari, V. T. A. (2019). Analisis Kesalahan Siswa dalam Menyelesaikan Soal Sistem Persamaan Linear Dua Variabel pada Siswa Kelas VIII MTs di Kabupaten Bandung Barat. *Journal on Education*, 1(2), Article 2. <https://doi.org/10.31004/joe.v1i2.18>
- Hansen, N., Jordan, N. C., Fernandez, E., Siegler, R. S., Fuchs, L., Gersten, R., & Micklos, D. (2015). General and math-specific predictors of sixth-graders' knowledge of fractions. *Cognitive Development*, 35, 34–49. <https://doi.org/10.1016/j.cogdev.2015.02.001>
- Hasanah, U., Dewi, N. R., & Rosyida, I. (2019). Self-efficacy siswa smp pada pembelajaran model learning cycle 7e (elicit, engage, explore, explain, elaborate, evaluate, and extend). *PRISMA, Prosiding Seminar Nasional Matematika*, 2, 551–555.
- Hernacki, B. D. P. & M. (2000). *Quantum Learning*. PT Mizan Publika.
- Huitt, W. (2003). Constructivism. *Educational Psychology Interactive*, 2006.
- Husmann, P. R., & O'Loughlin, V. D. (2019). Another Nail in the Coffin for Learning Styles? Disparities among Undergraduate Anatomy Students' Study Strategies, Class Performance, and Reported VARK Learning Styles. *Anatomical Sciences Education*, 12(1), 6–19. <https://doi.org/10.1002/ase.1777>
- Inayah, S., Juandi, D., Siswanto, R. D., & Morin, S. (2022). Self-Efficacy Guru Matematika dalam Menghadapi Dinamika Pembelajaran di Masa Pandemi COVID 19. *JPMI (Jurnal Pembelajaran Matematika Inovatif)*, 5(2), Article 2. <https://doi.org/10.22460/jpmi.v5i2.10012>
- Ishtifa, H. (2011). *Pengaruh self-efficacy dan kecemasan akademis terhadap self-regulated dan learning mahasiswa fakultas Psikologi Universitas Islam Negeri Jakarta*.

- Jablonka, E. (2003). Mathematical literacy. *Second International Handbook of Mathematics Education*, 75–102.
- Jaenudin, J., Nindiasari, H., & Pamungkas, A. S. (2017). Analisis Kemampuan Berpikir Reflektif Matematis Siswa ditinjau dari Gaya Belajar. *Prima: Jurnal Pendidikan Matematika*, 1(1), Article 1. <https://doi.org/10.31000/prima.v1i1.256>
- Jannah, M. (2017). *Identifikasi tipe justifikasi penyelesaian masalah pembuktian ditinjau dari gaya belajar VAK (Visual, Audio, dan Kinestetik) siswa SMP* [PhD Thesis]. UIN Sunan Ampel Surabaya.
- Jatisunda, M. G. (2017). Hubungan self-efficacy siswa SMP dengan kemampuan pemecahan masalah matematis. *Jurnal THEOREMS (The Original Research of Mathematics)*, 1(2), 24–30.
- Jogiyanto, & Abdillah, W. (2009). *Konsep dan Aplikasi PLS (Partial Least Square) untuk Penelitian Empiris*. BPFE.
- Jordan, N. C., Glutting, J., Ramineni, C., Watkins, M. W., Jordan, N. C., Glutting, J., Ramineni, C., Watkins, M. W., Jordan, N. C., Glutting, J., & Watkins, M. W. (2019). Validating a Number Sense Screening Tool for Use in Kindergarten and First Grade: Prediction of Mathematics Proficiency in Third Grade Validating a Number Sense Screening Tool for Use in Proficiency in Third Grade. *School Psychology Review*.
- Juniati, E. (2017). Peningkatkan Hasil Belajar Matematika Melalui Metode Drill dan Diskusi Kelompok pada Siswa Kelas VI SD. *Scholaria: Jurnal Pendidikan dan Kebudayaan*, 7(3), Article 3. <https://doi.org/10.24246/j.scholaria.2017.v7.i3.p283-291>
- Kablan, Z. (2016). The effect of manipulatives on mathematics achievement across different learning styles. *Educational Psychology*, 36(2), 277–296.
- Kamalia, N. S., Wuryastuti, S., & Suratno, T. (2019). Kenyamanan dan Kepercayaan Dalam Hubungan Antara Guru dan Siswa pada Sekolah Adiwiyata. *Proseding Didaktis: Seminar Nasional Pendidikan Dasar*, 4(1), 23–30.
- Kamalimoghaddam, H., Tarmizi, R. A., Ayyub, A. fauzi M., & Wan Jaafar, W. M. (2016). *Confirmatory Model of Mathematics Self-Efficacy, Problem Solving Skills and Prior Knowledge on Mathematics Achievement A Structural Equation Model.pdf*.
- Karwowski, M., & Kaufman, J. C. (2017). *THE CREATIVE SELF Effect of Beliefs, Self-Efficacy, Mindset, and Identity.pdf*.



- Kemple, K. M., Lee, I. R., & Harris, M. (2016). Young Children's Curiosity About Physical Differences Associated with Race: Shared Reading to Encourage Conversation. *Early Childhood Education Journal*, 44(2), 97–105. <https://doi.org/10.1007/s10643-014-0683-0>
- Khaerunisak, K., Kartono, K., Hidayah, I., & Fahmi, A. (2017). The Analysis of Diagnostic Assessment Result in Pisa Mathematical Literacy Based on Students *Self-Efficacy* in RME Learning. *Infinity Journal*, 6, 77. <https://doi.org/10.22460/infinity.v6i1.236>
- Khoirunnisa, S., & Iba, K. (2022). *Correlation Study Of Visual, Auditorial and Kinesthetic Learning Styles (VAK) With Mathematics Learning Outcomes For Elementary School Students | Khoirunnisa | Jurnal Paedagogy*. <https://e-journal.undikma.ac.id/index.php/pedagogy/article/view/5495>
- Kirsch, I. S., & Mosenthal, P. B. (1990). Exploring document literacy: Variables underlying the performance of young adults. *Reading Research Quarterly*, 5–30.
- Klement, M. (2014). How do my students study? An analysis of students' of educational disciplines favorite learning styles according to VARK classification. *Procedia-Social and Behavioral Sciences*, 132, 384–390.
- Kolar, V. M., & Hodnik, T. (2021). Mathematical literacy from the perspective of solving contextual problems. *European Journal of Educational Research*, 10(1), 467–483. <https://doi.org/10.12973/EU-JER.10.1.467>
- Kostolányová, K. (2011). (PDF) *Classification of Learning Styles for Adaptive Education*. [https://www.researchgate.net/publication/294778785\\_Classification\\_of\\_Learning\\_Styles\\_for\\_Adaptive\\_Education](https://www.researchgate.net/publication/294778785_Classification_of_Learning_Styles_for_Adaptive_Education)
- Kurniawan, M. R. (2017). Analisis karakter media pembelajaran berdasarkan gaya belajar peserta didik. *JINoP (Jurnal Inovasi Pembelajaran)*, 3(1), 491–506.
- Kurniawati, N. D. L., & Mahmudi, A. (2019). Analysis of mathematical literacy skills and mathematics self-efficacy of junior high school students. *Journal of Physics: Conference Series*, 1320(1). <https://doi.org/10.1088/1742-6596/1320/1/012053>
- Lafrance, J. A., & Beck, D. (2017). *Learner Self-Efficacy in K-12 Online Environments Self-efficacy*. 229–243. <https://doi.org/10.1007/978-3-319-99858-9>
- Lamowa, R. A., Irawati, S., & Subanji, S. (2022). Proses metakognitif siswa dalam menyelesaikan masalah matematika berdasarkan gaya belajar VAK (visual, auditori, dan kinestetik). *Jurnal Kajian Pembelajaran Matematika*, 6(1), Article 1. <https://doi.org/10.17977/um076v6i12022p38-47>

- Land, K. C. (1969). Principles of Path Analysis. *Sociological Methodology*, 1, 3–37. <https://doi.org/10.2307/270879>
- Lestari, U. P., Sinambela, E. A., Mardikaningsih, R., & Darmawan, D. (2020). Pengaruh Efikasi Diri dan Lingkungan Kerja terhadap Kepuasan Kerja Karyawan. *Jesya (Jurnal Ekonomi Dan Ekonomi Syariah)*, 3(2), 529–536.
- Lestari, I. S., Zaenuri, Z., & Mulyono, M. (2022). Literasi Matematika Ditinjau dari Self Efficacy dengan Menggunakan Problem Solving Learning Model dengan Strategi Scaffolding. *Inovasi Sekolah Dasar: Jurnal Kajian Pengembangan Pendidikan*, 9(1).
- Liu, X., & Koirala, H. (2009). *The Effect of Mathematics Self-Efficacy on Mathematics Achievement of High School Students*.
- Lubinski, D., & Benbow, C. P. (2012). Study of Mathematically Precocious Youth. *Encyclopedia of Giftedness, Creativity, and Talent*, 1(4), 316–345. <https://doi.org/10.4135/9781412971959>
- Lupita, L., & Hidajat, F. A. (2022). Desain Differentiated Instruction Pada Materi Statistika untuk Peserta Didik SMP: Alternatif Pembelajaran bagi Siswa Berbakat. *Griya Journal of Mathematics Education and Application*, 2(2), 388–400.
- Machromah, I. U., Ishartono, N., Mirandhani, A., Muhroji, Samsudin, M., Basry, W., & Ernitasari. (2021). PISA Problems Solving of Students with a Visual Learning Styles. *Journal of Physics: Conference Series*, 1720(1), 012010. <https://doi.org/10.1088/1742-6596/1720/1/012010>
- Maemunawati, S., & Alif, M. (2020). *Peran guru, orang tua, metode dan media pembelajaran: Strategi kbm di masa pandemi covid-19*. 3M Media Karya.
- Martin, C., Polly, D., Mraz, M., Algozzine, R., Martin, C., Polly, D., Mraz, M., & Algozzine, R. (2019). Examining focus , duration , and classroom impact of literacy and mathematics professional development. *Teacher Development*, 23(1), 1–17. <https://doi.org/10.1080/13664530.2018.1530695>
- Masfufah, R., & Afriansyah, E. A. (2022). Analisis Kemampuan Literasi Matematis ditinjau dari Gaya Belajar Siswa SMP pada Pembelajaran Daring. *Jurnal PERISAI: Jurnal Pendidikan Dan Riset Ilmu Sains*, 1(1), Article 1.
- Masnia, F., & Amir, Z. (2019). Pengaruh penerapan model scaffolding terhadap kemampuan pemahaman konsep matematis berdasarkan self efficacy siswa SMP. *JURING (Journal for Research in Mathematics Learning)*, 2(3), 249–256.
- Maufur, H. F. (2020). *Sejuta jurus mengajar Mengasyikkan*. Alprin.



- Mellott, J. A., & Ardoin, S. P. (2019). Using Brief Experimental Analysis to Identify the Right Math Intervention at the Right Time. *Journal of Behavioral Education*, 28(4), 435–455. <https://doi.org/10.1007/s10864-019-09324-x>
- Menon, D. (2020). *Influence of the Sources of Science Teaching Self-Efficacy in Preservice Elementary Teachers' Identity Development: Journal of Science Teacher Education: Vol 31, No 4.* <https://www.tandfonline.com/doi/abs/10.1080/1046560X.2020.1718863>
- Moma, L. (2017). Pengembangan kemampuan berpikir kreatif dan pemecahan masalah matematis mahasiswa melalui metode diskusi. *Jurnal Cakrawala Pendidikan*, 36(1), 130–139.
- Muali, C., Islam, S., Bali, M. E. I., Hefniy, Baharun, H., Mundiri, A., Jasri, M., & Fauzi, A. (2018). Free Online Learning Based On Rich Internet Applications; The Experimentation Of Critical Thinking About Student Learning Style. *Journal of Physics: Conference Series*, 1114(1), 012024. <https://doi.org/10.1088/1742-6596/1114/1/012024>
- Murni, S. (2020). Analysis of mathematical thinking skills in multiple intelligence perspectives of primary school students Analysis of mathematical thinking skills in multiple intelligence perspectives of primary school students. *Journal of Physics*. <https://doi.org/10.1088/1742-6596/1657/1/012013>
- Myers, C. G. (2018). Coactive vicarious learning: Toward a relational theory of vicarious learning in organizations. *Academy of Management Review*, 43(4), 610–634.
- Ningsih, W. F., & Hayati, I. R. (2020). Dampak Efikasi Diri Terhadap Proses & Hasil Belajar Matematika (The Impact Of Self-Efficacy On Mathematics Learning Processes and Outcomes). *Journal on Teacher Education*, 1(2), 26–32.
- Niss, M., & Højgaard, T. (2019). Mathematical competencies revisited. *Educational Studies in Mathematics*, 102(1), 9–28. <https://doi.org/10.1007/s10649-019-09903-9>
- Noorbaiti, R., Fajriah, N., & Sukmawati, R. A. (2018). *Implementasi Model Pembelajaran Visual-Auditori-Kinestetik (Vak) pada Mata Pelajaran Matematika di Kelas VII E MTsN Mulawarman Banjarmasin.* <https://repositori.uin-suka.ac.id/handle/123456789/22811>
- Noviandari, H., & Kawakib, J. (2016). Teknik Cognitive Restructuring Untuk Meningkatkan Self Efficacy Belajar Siswa. *Jurnal Psikologi: Jurnal Ilmiah Fakultas Psikologi Universitas Yudharta Pasuruan*, 3(2), 76–86.

- Numela, R., & Caine, G. (1994). *Making Connections, Teaching and the Human Brain*. Printed in the United States of America.
- OECD. (2004). *The PISA 2003 Assessment Framework: Mathematics, Reading, Science and Problem Solving Knowledge and Skills*. Organisation for Economic Co-operation and Development. <https://www.oecd-9789264101739-en>
- OECD. (2017). PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematics, Financial Literacy and Collaborative Problem Solving. *Pisa 2015*, 19–49.
- OECD. (2019). *PISA 2018 Assessment and Analytical Framework*. Organisation for Economic Co-operation and Development. [https://www.oecd-ilibrary.org/education/pisa-2018-assessment-and-analytical-framework\\_b25efab8-en](https://www.oecd-ilibrary.org/education/pisa-2018-assessment-and-analytical-framework_b25efab8-en)
- Orhun, N. (2007). An investigation into the mathematics achievement and attitude towards mathematics with respect to learning style according to gender. *International Journal of Mathematical Education in Science and Technology*, 38(3), 321–333. <https://doi.org/10.1080/00207390601116060>
- Ostling, M. (2019). *Pedagogy of Freedom: Ethics, Democracy, and Civic Courage*. By Paulo Freire; translated by Patrick Clark. New York: Rowman and Littlefield, 2001. *Religious Studies Review*, 45(1), 55–55. <https://doi.org/10.1111/rsr.13807>
- Özpolat, E., & Akar, G. B. (2009). Automatic detection of learning styles for an e-learning system. *Computers & Education*, 53(2), 355–367.
- Palmer, D., Dixon, J., & Archer, J. (2015). Changes in science teaching self-efficacy among primary teacher education students. *Australian Journal of Teacher Education (Online)*, 40(12), 27–40.
- Papilaya, J. O., & Huliselan, N. (2016). Identifikasi gaya belajar mahasiswa. *Jurnal Psikologi Undip*, 15(1), 56–63.
- Pedota, J. P. (2015). *How Can Student Success Support Teacher Self-Efficacy and Retention.pdf*.
- Permatasari, A. D., Arifah, S., & Maryam, R. (2018). Penerapan Teknik Modeling Dalam Konseling Kelompok Untuk Meningkatkan Self Efficacy Akademik Siswa Di SMP. *Jurnal Thalaba Pendidikan Indonesia*, 1(2), 78–89.
- Perry, K. H. (2012). What is literacy? —A critical overview of sociocultural perspectives. *Journal of Language and Literacy Education*. <https://doi.org/10.1017/CBO9781107415324.004>

- Pertiwi, M., Suhendra, S., & Juandi, D. (2022). Mathematical Literacy Ability of Junior High School Students in Terms of Self-Efficacy. *SJME (Supremum Journal of Mathematics Education)*, 6(2), Article 2. <https://doi.org/10.35706/sjme.v6i2.6547>
- Piaget, J. (2003). *The psychology of intelligence*. Routledge.
- Pohan, A. E. (2020). *Konsep pembelajaran daring berbasis pendekatan ilmiah*. Penerbit CV. Sarnu Untung.
- Porter, D. E., & Witchel, E. (2010). Understanding Transactional Memory Performance. *ISPASS 2010 - IEEE International Symposium on Performance Analysis of Systems and Software*, 97–108. <https://doi.org/10.1109/ISPASS.2010.5452061>
- Prabawanto, S. (2018). The enhancement of students' mathematical self-efficacy through teaching with metacognitive scaffolding approach. *Journal of Physics: Conference Series*, 1013(1). <https://doi.org/10.1088/1742-6596/1013/1/012135>
- Pratiwi, I. W. (2022). Gambaran Efikasi Diri Mata Pelajaran Matematika pada Siswa Kelas VII Mts Al Mujahiddin, Cikarang Utara. *Jurnal Psikologi Pendidikan dan Pengembangan SDM*, 11(1), 1–11.
- Prussia, G. E., Anderson, J. S., & Manz, C. C. (1998). Self-leadership and performance outcomes: The mediating influence of self-efficacy. *Journal of Organizational Behavior: The International Journal of Industrial, Occupational and Organizational Psychology and Behavior*, 19(5), 523–538.
- Purpura, D. J., Logan, J. A. R., Hassinger-Das, B., & Napoli, A. R. (2017). Why do early mathematics skills predict later reading? The role of mathematical language. *Developmental Psychology*, 53(9), 1633–1642. <https://doi.org/10.1037/dev0000375>
- Puspita, E., Juandi, D., & Rosjanuardi, R. (2020). Gaya Belajar dan Nilai Kalkulus Diferensial: Apakah Mempengaruhi IPK? *JNPM (Jurnal Nasional Pendidikan Matematika)*, 4(2), Article 2. <https://doi.org/10.33603/jnpm.v4i2.3629>
- Putra, S. A., Daharnis, D., & Syahniar, S. (2013). Efektivitas layanan bimbingan kelompok dalam meningkatkan self efficacy siswa. *Konselor*, 2(2).
- Putri, F. A. R., & Fakhruddiana, F. (2018). Self-efficacy guru kelas dalam membimbing siswa slow learner. *JPK (Jurnal Pendidikan Khusus)*, 14(1), 1–8.

- Putri, Y., Huda, N., & Yantoro, Y. (2021). Analysis of concept construction errors in mathematical problem solving based on the assimilation and accommodation framework in terms of student learning styles. *Desimal: Jurnal Matematika*, 4(3), Article 3. <https://doi.org/10.24042/djm.v4i3.9752>
- Rafiepour Gatabi, A., Stacey, K., & Gooya, Z. (2012). Investigating grade nine textbook problems for characteristics related to mathematical literacy. *Mathematics Education Research Journal*, 24(4), 403–421.
- Rahmadhani, E., Gradini, E., & Firmansyah, B. (2020). Literasi Matematika Siswa Melalui Metode Murder (Mood, Understand, Recall, Digest, Expand, Review). *Al Khawarizmi: Jurnal Pendidikan Dan Pembelajaran Matematika*, 3(2), 26–40.
- Rahman, A. A., Dazrullisa, Kristanti, D., Anim, Y. A., Syafitri, E., Astuti, D., & Abdullah, D. (2018). Increasing Students' Self-Efficacy Through Realistic Mathematics Education in Inclusion Classroom. *IOP Conference Series: Earth and Environmental Science*.
- Rahman, T. (2018). *Aplikasi model-model pembelajaran dalam penelitian tindakan kelas*. CV. Pilar Nusantara.
- Respita, R. (2020). Pengaruh Gaya Belajar dan Self-Efficacy terhadap Hasil Belajar Siswa. *Ranah Research: Journal of Multidisciplinary Research and Development*, 2(3), 67–75. <https://doi.org/10.31933/rj.v2i3.362>
- Riscaputantri, A., & Wening, S. (2018). Pengembangan instrumen penilaian afektif siswa kelas IV sekolah dasar di Kabupaten Klaten. *Jurnal Penelitian Dan Evaluasi Pendidikan*, 22(2), Article 2. <https://doi.org/10.21831/pep.v22i2.16885>
- Rombean, C., Rahmadi, P., & Appulembang, O. D. (2021). Pentingnya penyampaian informasi yang tepat untuk membangun komunikasi efektif kepada siswa kelas iii sekolah dasar [the importance of delivering information appropriately in building effective communication to grade 3 of primary students]. *JOHME: Journal of Holistic Mathematics Education*, 5(1), 13–30.
- Rosanggreni, B. Y., Sugiarti, T., & Yudianto, E. (2018). Analisis Kesalahan Siswa dalam Menyelesaikan Soal Cerita ditinjau dari Gaya Belajar Kinestetik. *KadikmA*, 9(1), 61–69. <https://doi.org/10.19184/kdma.v9i1.8024>
- Rusman, R. (2017). *Belajar dan Pembelajaran Berorientasi Standar Proses Pendidikan*. Kencana Prenada.
- Sakinah, M., & Avip P, B. (2021). An analysis of students' mathematical literacy skills assessed from students' learning style. *Journal of Physics: Conference Series*, 1882(1), 012075. <https://doi.org/10.1088/1742-6596/1882/1/012075>

- Salsabila, U. H., Seviarica, H. P., & Hikmah, M. N. (2020). Urgensi Penggunaan Media Audiovisual dalam Meningkatkan Motivasi Pembelajaran Daring di Sekolah Dasar. *INSANIA: Jurnal Pemikiran Alternatif Kependidikan*, 25(2), 284–304.
- Sanjaya, W. (2015). *Perencanaan dan desain sistem pembelajaran*. Kencana.
- Santrock, J. W. (2018). Educational psychology, 6th ed. In *McGraw-Hill Education*.
- Schechter, C., & Moran, M. T. (2006). Teachers' sense of collective efficacy: An international view. *International Journal of Educational Management*.
- Schleicher, A. (1999). *Measuring Student Knowledge and Skills: A New Framework for Assessment*. ERIC.
- Schukajlow, S., Leiss, D., Pekrun, R., Blum, W., Müller, M., & Messner, R. (2012). Teaching methods for modelling problems and students' task-specific enjoyment, value, interest and self-efficacy expectations. *Educational Studies in Mathematics*, 79(2). <https://doi.org/10.1007/s10649-011-9341-2>
- Seifert, K., & Sutton, R. (2009). *Educational psychology*. Kelvin Seifert.
- Septianti, N., & Afiani, R. (2020). Pentingnya Memahami Karakteristik Siswa Sekolah Dasar Di SDN Cikokol 2. *As-Sabiqun*, 2(1), 7–17.
- Sesmiarni, Z. (2015). Membendung Radikalisme Dalam Dunia Pendidikan Melalui Pendekatan Brain Based Learning. *Kalam*, 9(2), 233–252.
- Setiawan, S. (2022). *Tutorial Analisis Partial Least Square dengan Smart-PLS Edisi 2*. <https://www.academia.edu/41108281>
- Setiawan, M. A. (2015). Model konseling kelompok dengan teknik problem solving untuk meningkatkan self-efficacy akademik siswa. *Jurnal Bimbingan Konseling*, 4(1).
- Sherman, H. J., Richardson, L. I., & Yard, G. J. (2019). *Teaching learners who struggle with mathematics: Responding with systematic intervention and remediation*. Waveland Press.
- Sheu, H.-B., Lent, R. W., Miller, M. J., Penn, L. T., Cusick, M. E., & Truong, N. N. (2018). Sources of self-efficacy and outcome expectations in science, technology, engineering, and mathematics domains: A meta-analysis. *Journal of Vocational Behavior*, 109, 118–136.
- Sholihah, S. Z., & Afriansyah, E. A. (2017). Analisis kesulitan siswa dalam proses pemecahan masalah geometri berdasarkan tahapan berpikir Van Hiele. *Mosharafa: Jurnal Pendidikan Matematika*, 6(2), 287–298.

- Siberman, M. L. (2018). *Active learning 101 cara belajar siswa aktif*. Nuansa Cendekia.
- Siskawati, F. S., Chandra, F. E., & Irawati, T. N. (2021). Profil Kemampuan Literasi Numerasi di Masa Pandemi COV-19. *KoPeN: Konferensi Pendidikan Nasional*, 3(1), Article 1.
- Sohilait, E., Halamury, W., & Litolily, S. R. (2022). Analisis Kesalahan Siswa dalam Menyelesaikan Soal Cerita Berdasarkan Newman Error Analysis Siswa Kelas VII SMP Yos Soedarso Masohi. *ELIPS: Jurnal Pendidikan Matematika*, 3(1), 53–68.
- Stacey, K. (2015). The real world and the mathematical world. In *Assessing mathematical literacy* (pp. 57–84). Springer.
- Stacey, K., & Turner, R. (2015). The evolution and key concepts of the PISA mathematics frameworks. In *Assessing mathematical literacy* (pp. 5–33). Springer.
- Subaidi, A. (2016). Self-Efficacy Siswa dalam Pemecahan Masalah Matematika. *SIGMA*, 1(2), Article 2. <https://doi.org/10.0324/sigma.v1i2.68>
- Suciati, Munadi, S., Sugiman, & Ratna Febriyanti, W. D. (2020). Design and validation of mathematical literacy instruments for assessment for learning in Indonesia. *European Journal of Educational Research*, 9(2), 865–875. <https://doi.org/10.12973/eu-jer.9.2.865>
- Sudariyanti, C. (2021). *Analisis Kemampuan Pemecahan Masalah Matematis Siswa SMP Pada Materi Aritmetika Sosial* [PhD Thesis]. UIN AR-RANIRY.
- Sugandi, E. (2021). Kesalahan Penyelesaian Soal Geometri Transformasi Berdasarkan Gaya Belajar: Studi Kasus Mahasiswa Calon Guru Matematika. *UNION: Jurnal Ilmiah Pendidikan Matematika*, 9(1), 71–80.
- Sugianto, A., Qomariah, M. S., & Alisha, A. N. (2022). *Analisis Karakteristik Gaya Belajar Siswa Sekolah Dasar Ukhuwah Banjarmasin Pasca COVID 19*.
- Sugiyono. (2016). *Metode Penelitian Pendidikan (Pendekatan Kuantitatif, kualitatif dan R&D)*. Alfabeta.
- Sumardianta, J., & Aw, W. K. (2018). *Mendidik Generasi Z Dan A*. Gramedia Widiasarana Indonesia.
- Sumartini, T. S. (2020). Self Efficacy Calon Guru Matematika. *Mosharafa: Jurnal Pendidikan Matematika*, 9(3), Article 3. <https://doi.org/10.31980/mosharafa.v9i3.797>



- Supriyanto, A., & Hendiani, N. (2018a). Self Efficacy Scale For People With Drug Abuse Disorders. *JKI (Jurnal Konseling Indonesia)*, 3(2), 57–63.
- Supriyanto, A., & Hendiani, N. (2018b). Self-efficacy level to recover from addiction in substance users in the center for Drug Rehabilitation. *Counsellia: Jurnal Bimbingan Dan Konseling*, 8(2), 114–121.
- Susanti, E., & Syam, S. S. (2017). Peran Guru dalam meningkatkan kemampuan literasi matematika siswa Indonesia. *Prosiding Dipresentasikan Dalam Seminar Matematika Dan Pendidikan Matematika UNY*.
- Suyono, & Hariyanto, S. (2011). *Belajar dan Pembelajaran Teori dan Konsep Dasar*. PT Remaja Rosdakarya.
- Syafi'i, A., Marfiyanto, T., & Rodiyah, S. K. (2018). Studi Tentang Prestasi Belajar Siswa Dalam Berbagai Aspek Dan Faktor Yang Mempengaruhi. *Jurnal Komunikasi Pendidikan*, 2(2), Article 2. <https://doi.org/10.32585/jkp.v2i2.114>
- Tarigan, D., & Siagian, S. (2015). Pengembangan media pembelajaran interaktif pada pembelajaran ekonomi. *Jurnal Teknologi Informasi & Komunikasi Dalam Pendidikan*, 2(2), 187–200.
- Thompson, C. L., Kuah, A. T., Foong, R., & Ng, E. S. (2020). The development of emotional intelligence, self-efficacy, and locus of control in Master of Business Administration students. *Human Resource Development Quarterly*, 31(1), 113–131.
- Thornton, K., Easterly III, R. G., & Simpson, K. A. (2020). Curricular Resource Use and the Relationship with Teacher Self-Efficacy Among New Mexico School-Based Agricultural Education Teachers. *Journal of Agricultural Education*, 61(4).
- Twombly, S. (2014). When Teaching Interferes With Learning: Balancing Accountability With the Unique Needs of Every Child. *New Educator*, 10(1), 44–52. <https://doi.org/10.1080/1547688X.2014.868232>
- Umrana, U., Cahyono, E., & Sudia, M. (2019). Analisis kemampuan pemecahan masalah matematis ditinjau dari gaya belajar siswa. *Jurnal Pembelajaran Berpikir Matematika*, 4(1), 67–76.
- Uno, H. B., & Koni. (2013). *Assessment pembelajaran*. Sinar Grafika Offset.
- Unver, S. K., Hidiroglu, C. N., Dede, A. T., & Guzel, E. B. (2018). Factors revealed while posing mathematical modelling problems by mathematics student teachers. *European Journal of Educational Research*, 7(4), 941–952. <https://doi.org/10.12973/eu-jer.7.4.941>

- Utami, N., Sukestiyarno, Y. L., & Hidayah, I. (2020). Kemampuan Literasi dalam Menyelesaikan Soal Cerita Siswa Kelas IX A. *PRISMA, Prosiding Seminar Nasional Matematika*, 3, 626–633.
- Utami, R. W., & Wutsqa, D. U. (2017). Analisis kemampuan pemecahan masalah matematika dan self-efficacy siswa SMP negeri di Kabupaten Ciamis / Utami | Jurnal Riset Pendidikan Matematika. <https://journal.uny.ac.id/index.php/jrpm/article/view/14897>
- Vandini, I. (2016). Peran kepercayaan diri terhadap prestasi belajar matematika siswa. *Formatif: Jurnal Ilmiah Pendidikan MIPA*, 5(3).
- Voica, C., Singer, F. M., & Stan, E. (2020). How are motivation and self-efficacy interacting in problem-solving and problem-posing? *Educational Studies in Mathematics*, 105(3), 487–517. <https://doi.org/10.1007/s10649-020-10005-0>
- Wahyudin, A. Y., & Wahyuni, A. (2022). Exploring Students' Learning Style and Proficiency at a University in Indonesia: A Quantitative Classroom Research. *TEKNOSASTIK*, 20(2), Article 2. <https://doi.org/10.33365/ts.v20i2.2150>
- Walle, J. A. Van De. (1994). *Elementary School Mathematic*. 309.
- Wandini, R. R. (2019). *Pembelajaran matematika untuk calon guru mi/sd*.
- Wassahua, S. (2016). Analisis gaya belajar siswa terhadap hasil belajar matematika pada materi himpunan siswa kelas VII SMP Negeri Karang Jaya Kecamatan Namlea Kabupaten Buru. *Matematika Dan Pembelajaran*, 4(1), 84–104.
- Wibowo, N. (2016). Upaya Peningkatan Keaktifan Siswa melalui Pembelajaran Berdasarkan Gaya Belajar di SMK Negeri 1 Saptosari. *Elinvo (Electronics, Informatics, and Vocational Education)*, 1(2), Article 2. <https://doi.org/10.21831/elinvo.v1i2.10621>
- Widayanti, F. D. (2013). Pentingnya mengetahui gaya belajar siswa dalam kegiatan pembelajaran di kelas. *Erudio Journal of Educational Innovation*, 2(1).
- Wijaya, A. (2016). Students' information literacy: A perspective from mathematical literacy. *Journal on Mathematics Education*, 7(2), 73–82.
- Williams, D. M. (2010). Outcome expectancy and self-efficacy: Theoretical implications of an unresolved contradiction. *Personality and Social Psychology Review*, 14(4), 417–425.
- Winata, A., Widiyanti, I. S. R., & Cacik, S. (2021). Analisis Kemampuan Numerasi dan Literasi Membaca Peserta Didik Kelas XI MA Islamiyah Senori Tuban. *Prosiding SNasPPM*, 6(1), Article 1.



- Yasin, A. I., Prima, E. C., & Sholihin, H. (2018). Learning Electricity Using Arduino-Android Based Game to Improve STEM Literacy. *Journal of Science Learning*, 1(3), 77–94.
- Yeh, C. Y. C., Cheng, H. N. H., Chen, Z. H., Liao, C. C. Y., & Chan, T. W. (2019). Enhancing achievement and interest in mathematics learning through Math-Island. *Research and Practice in Technology Enhanced Learning*, 14(1). <https://doi.org/10.1186/s41039-019-0100-9>
- Yulianto, L. D., Turmudi, T., & Hidayatullah, A. S. (2017). Tipe Berpikir Anak Berbakat Matematika Tingkat SMA di Kota Bandung. *Journal on Mathematics Education Research*, 2(2).
- Yunia, N., & Zanthly, L. S. (2020). Kesalahan siswa smp dalam menyelesaikan soal cerita pada materi aritmatika sosial. *Teorema: Teori Dan Riset Matematika*, 5(1), 105–116.
- Zagoto, S. F. L. (2019). Efikasi diri dalam proses pembelajaran. *Jurnal Review Pendidikan Dan Pengajaran (JRPP)*, 2(2), 386–391.
- Zakeus, S. (2022). Peningkatan Kemampuan Komunikasi Matematis Siswa Melalui Penerapan Model Pembelajaran Problem Based Learning. *Journal of Comprehensive Science (JCS)*, 1(4), 482–503.
- Zimmerman, B. J. (1999). *Self-Efficacy An Essential Motive to Learn.pdf*.
- Zimmerman, B. J., & Schunk, D. H. (2012). Motivation: An essential dimension of self-regulated learning. In *Motivation and Self-Regulated Learning: Theory, Research, and Applications* (pp. 1–30). <https://doi.org/10.4324/9780203831076>