

DAFTAR PUSTAKA

- Abdurahman, A. (2012). Media pembelajaran: Teori dan aplikasi. In *Raja Grafindo Persada*.
- Albay, E. M., & Eisma, D. V. (2021). Social Sciences & Humanities Open Performance task assessment supported by the design thinking process : Results from a true experimental research. *Social Sciences & Humanities Open*, 3(1), 100116. <https://doi.org/10.1016/j.ssaho.2021.100116>
- Amir, Z. (2014). Psikologi pembelajaran matematika. In *Aswaja Pressindo*.
- Anas, S. (2014). *Media pembelajaran*. Raja Grafindo Persada.
- Andrews, J. D. W. (1984). Discovery and Expository Learning Compared : Discovery and Expository Learning Compared : Their Effects on Independent and Dependent Students. *The Journal of Educational Research*. <https://doi.org/10.1080/00220671.1984.10885578>
- Ariani, R., & Mahrus, M. (2025). Efektivitas Media Manipulatif dalam Meningkatkan Pemahaman Operasi Bilangan Pecahan Peserta Didik Kelas IV Sekolah Dasar. *Alacrity : Journal Of Education*, 5(1), 681–692.
- Arikunto. (2015). *Dasar-dasar evaluasi pendidikan edisi 3*. Bumi aksara.
- Armansyah, Nurwahidin, M., & Sudjarwo. (2022). Aksiologi kemampuan berpikir kritis. *Jurnal Cakrawala Ilmiah*, 2(4), 1423–1430. <https://doi.org/https://bajangjournal.com/index.php/JCI/article/view/4329>
- Ausubel, D. P. (1968). Educational psychology: A cognitive view. In *Holt, Rinehart and Winston*.
- Bandura, A. (1982). Self-Efficacy Mechanism in Human Agency. *American Psychologist*, 37(2), 122–147.
- Bandura, A. (1997). *Self efficacy the exercise of control*. W. H. Freeman and Company.
- Bandura, A., Pastorelli, C., Barbaranelli, C., & Caprara, G. V. (1999). Self-Efficacy Pathways to Childhood Depression. *Personality and Social Psychology*, 76(2), 258–269. <https://doi.org/https://doi.org/10.1037/0022-3514.76.2.258>
- Battista, M. T. (2007). *Cognition-based assessment and teaching of geometry*. Heinemann.

- Bergstrom, C., & Zhang, D. (2016). Geometry interventions for K-12 students with and without disabilities : A research synthesis. *International Journal of Educational Research*, 2015. <https://doi.org/10.1016/j.ijer.2016.04.004>
- Boggan, M., Harper, S., & Whitmire, A. (2010). Using manipulatives to teach elementary mathematics. *Journal of Instructional Pedagogies*, 3, 1–6.
- Bruner, J. S. (1961). The act of discovery. *Harvard Educational Review*, 31(1), 21–32.
- Chen, G., Gully, S. M., & Eden, D. (2001). Validation of a New General Self-Efficacy Scale. *Organizational Research Methods*, 4(1), 62–83. <https://doi.org/10.1177/109442810141004>
- Chikha, A. Ben, Hawani, A., Eken, Ö., Goumni, C., Zoghlami, W., Mrayeh, M., Kurtoğlu, A., Souissi, N., & Aldhahi, M. I. (2024). The impact of the “treasure game” on geometric thinking and post-learning mood in first-grade children. *Medicine*, 50(August). <https://doi.org/http://dx.doi.org/10.1097/MD.00000000000040695>
- Clement, D. H., & Battista, M. T. (1989). Learning of Geometric Concepts in a Logo Environment Author (s): Douglas H . Clements and Michael T . Battista Source : Journal for Research in Mathematics Education , Nov ., 1989 , Vol . 20 , No . 5 Published by : National Council of Teachers of Mathem. *National Council of Teachers of Mathematics*, 20(5), 450–467. <https://doi.org/10.130.18.1>
- Clements, D. H., & Battista, M. T. (1992). Geometry and spatial reasoning. In D. A. Grouws (Ed.), *Handbook of research on mathematics teaching and learning* (pp. 420–464). Macmillan Library Reference.
- Creswell, J. . (2012). *Educational Research Planning, Conducting, and Evaluating Quantitative and Qualitative Research*. Pearson.
- Creswell, J. W. (2002). *Educational research: Planning, conducting, and evaluating quantitative* (Vol. 7). Prentice Hall Upper Saddle River, NJ.
- Dahlan. (2004). Statistik untuk Penelitian Pendidikan. *Bandung: Pustaka Setia*, 4(1), 10.
- Darhim. (1996). Pembelajaran matematika. In *FMIPA UPI*.
- Djaali. (2021). Metodologi penelitian kuantitatif. In *Bumi Aksara*.

- Duval, R. (1998). Geometry and the cognitive development of students: The role of registers of semiotic representation. *Educational Studies in Mathematics*, 36(2), 123–162. <https://doi.org/10.1023/A:1003089104411>
- Eggen, P., & Kauchak, D. (2012). *Strategies and models for teachers: Teaching content and thinking skills (6th ed.)*. Pearson Education.
- Freudenthal, H. (1973). *Mathematics as an Educational Task*. Dordrecht: D. Reidel. D. Reidel.
- Friedman, H. S., & Schustack, M. W. (2008). Personality: Classic theories and modern research. In *Pearson Education*.
- Grønlien, H. K., Christoffersen, T. E., Ringstad, Ø., Andreassen, M., & Lugo, R. G. (2021). A blended learning teaching strategy strengthens the nursing students' performance and self-reported learning outcome achievement in an anatomy, physiology and biochemistry course – A quasi-experimental study. *Nurse Education in Practice*, 52(April). <https://doi.org/10.1016/j.nepr.2021.103046>
- Hanafiah, H. (2010). Strategi pembelajaran inovatif. In *Gaung Persada Press*.
- Heryadi, D., & Sundari, R. S. (2020). Expository learning model. *International Journal of Education and Research*, 8(1), 207–216.
- Hoffer, A. (1981). Geometry is more than proof. *Mathematics Teacher*, 74(1), 11–18.
- Honomichl, R. D., & Chen, Z. (2012). *The role of guidance in children's discovery learning*. 3(December), 615–622. <https://doi.org/10.1002/wcs.1199>
- Jambunathan, S., Burhanuddin, A., & Hadi, S. (2021). Guided discovery learning: Enhancing students' conceptual understanding through discovering facts and relationships. *Journal of Educational Research and Evaluation*, 5(3), 412–420.
- Kaskens, J., Segers, E., Lin, S., & Luit, J. E. H. Van. (2020). Impact of Children's math self-concept, math self-efficacy, math anxiety, and teacher competencies on math development. *Teaching and Teacher Education*, 94, 103096. <https://doi.org/10.1016/j.tate.2020.103096>
- Kelly, C. A. (2006). Using Manipulatives in Mathematical Problem Solving: A Performance-Based Analysis Let us know how access to this document

- benefits you . *The Mathematics Enthusiast*, 3(2).
<https://doi.org/https://doi.org/10.54870/1551-3440.1049>
- Kemendikbudristek. (2021). *Panduan Pengembangan Proyek Penguatan Profil Pelajar Pancasila Edisi Revisi*.
- Kennedy, L. M. (1986). Guidelines for the use of manipulative materials in elementary school mathematics. *Arithmetic Teacher*, 34(3), 6–13.
- Klahr, D., & Nigam, M. (2004). The Equivalence of Learning Paths in Early Science Instruction. *Psychological Science*, 15, 661.
<https://doi.org/10.1111/j.0956-7976.2004.00737.x>
- Kusumastuti, S. Y., Faisal, A., Rahayu, D. H., & Hartini. (2021). Metode Penelitian Kuantitatif. In *Sonpedia Publishing Indonesia*.
- Lee, J. S. Y., & Yeung, C. Y. (2021). Assisted discovery-based learning for literature studies Assisted discovery-based learning for literature studies. *Innovations in Education and Teaching International*, 00(00), 1–12.
<https://doi.org/10.1080/14703297.2021.1916567>
- Lestari, K. E., & Yudhanegara, M. R. (2017). *Penelitian pendidikan matematika*. PT Refika Aditama.
- Lubis, A. B., Miaz, Y., & Putri, I. E. (2019). *Influence of the Guided Discovery Learning Model on Primary School Students ' Mathematical Problem -solving Skills*. 6(2), 253–266. <https://doi.org/10.17509/mimbar-sd.v6i2.17984>
- Malik, S., Prabawa, H. W., & Rusnayati, H. (2019). Peningkatan Kemampuan Berpikir Geometris Siswa melalui Multimedia Interaktif Berbasis Model Quantum Teaching and Learning. *International Journal of Computer Science Education in Schools*, 8(November), 41.
<https://doi.org/10.13140/RG.2.2.34438.83526>
- Marlina, E., & Andriani, R. (2021). Penggunaan media literasi digital berbantuan flipbook dalam pembelajaran daring. *Jurnal Pengabdian Kepada Masyarakat*.
<https://doi.org/https://doi.org/10.30999/jpkm.v11i2.1939>
- Mason, J. (1998). Contexts for learning mathematics. In *Kluwer Academic Publishers*.
- Mayberry, J. P. (1983). The van Hiele model of geometric thought in the classroom. In *Mathematical Association of America*.

- Mayer, R. E. (2009). *Multimedia Learning* (2nd ed.). Cambridge University Press.
- Melhem, D. Z., Mohammad, A., Zoubi, A., & Melhem, H. (2025). Improving Geometric Thinking Skills Through a Multisensory-Based CRA Framework in Students with Learning Difficulties and Various Sensory Preferences. *Ed Process Int J*, 16. <https://doi.org/https://doi.org/10.22521/edupij.2025.16.255>
- Moyer, P. S. (2002). *Are we having fun yet? how teachers use manipulatives to teach mathematics*. 175–197.
- Muhsetyo, G., Krisnadi, E., & Wahyuningrum, E. (2007). *Pembelajaran matematika SD*. Universitas Terbuka.
- Mulyasa, E. (2008). Menjadi guru profesional: Strategi dan implementasi. In *Remaja Rosdakarya*.
- Mussen, P. H. (1974). *Child Development and Personality*. Harper & Row.
- NCTM. (2000). *Principles and standards for school mathematics*.
- Ormrod, J. E. (2006). Educational psychology: Developing learners (5th ed.). In *Pearson Merrill Prentice Hall*.
- Ozcan, Z. C., & Gumus, A. E. (2019). A modeling study to explain mathematical problem- solving performance through. *Australian Journal of Education*, 0(0), 1–19. <https://doi.org/10.1177/0004944119840073>
- Pajares, F. (2003). Self-efficacy beliefs, motivation, and achievement in writing: a review of the literature. *Taylor & Francis*, 19, 37–41. <https://doi.org/https://doi.org/10.1080/10573560308222>
- Peterson, P. L., Mercer, C. D., & O'Shea, L. J. (1988). Using instructional materials to enhance learning. *Journal of Educational Research*, 81(5), 288–294. <https://doi.org/https://doi.org/10.1080/00220671.1988.10885842>
- Piaget, J. (1970). Science of education and the psychology of the child. In *Viking Press*.
- Pujiastuti, R., Suparno, & Widiati, U. (2014). Pengaruh model pembelajaran penemuan terbimbing terhadap pemahaman konsep matematika siswa. *Jurnal Pendidikan Matematika*, 2(1), 45–52.
- Saifuddin, A. (2014). *Pengelolaan pembelajaran teoritis dan praktis*. Pustaka Pelajar.
- Sanjaya, W. (2011). Strategi pembelajaran berorientasi standar proses pendidikan.

In *Kencana*.

- Schunk, D. H. (1991). Self-efficacy and academic motivation. *Educational Psychologist*, 26(3–4), 207–231.
https://doi.org/https://doi.org/10.1207/s15326985ep2603&4_2
- Shadish, W. R., Cook, T. D., & Campbell, D. T. (2002). Experimental and quasi-experimental designs for generalized causal inference. In *Houghton Mifflin*.
- Shieh, C., & Yu, L. (2016). A Study on Information Technology Integrated Guided Discovery Instruction towards Students ' Learning Achievement and Learning Retention. *Eurasia Journal of Mathematics, Science & Technology Education*, 12(15), 833–842. <https://doi.org/10.12973/eurasia.2015.1554a>
- Shofiah, V., Taruna, R., Asra, Y. K., Rajab, K., & Sa'ari, C. Z. (2023). Academic Self-Efficacy as A Mediator on The Relationship Between Academic Motivation and Academic Achievement of College Students During the Online Learning Period. *International Journal of Islamic Educational Psychology*, 4(1), 154–168.
<https://doi.org/https://doi.org/10.18196/ijiep.v4i1.18247>
- Simamora, R. E., Saragih, S., & Hasratuddin. (2018). Improving students' mathematical problem-solving ability and self-efficacy through guided discovery learning in local culture context. *International Electronic Journal of Mathematics Education*, 13(1), 61–72.
<https://doi.org/https://doi.org/10.12973/iejme/2696>
- Siregar, N. C., Rosli, R., & Maat, S. M. (2020). The Effects of a Discovery Learning Module on Geometry for Improving Students' Mathematical Reasoning Skills, Communication and Self-Confidence. *International Journal of Learning, Teaching and Educational Research*, 19(3), 214–228.
<https://doi.org/https://doi.org/10.26803/ijlter.19.3.12>
- Smith, S. S. (2009). *Early childhood mathematics (4th ed.)*. Pearson Education.
- Sucipta, Ahman, E., & Budiwati, N. (2025). The Effect of the Guided Discovery Learning Method on Students ' Critical Thinking Skills in Terms of Learning. *Indonesian Journal of Economic Education*, 2(1), 21–40.
- Sugiyono. (2008). *Metode Penelitian Kuantitatif Kualitatif dan R&D*. 25.
- Sugiyono. (2013). *Metode penelitian kuantitatif kualitatif dan R & D*. Alfabeta.

- Supardi. (2017). Statistik penelitian pendidikan. In *Alfabeta*.
- Tasci, G., & Soylu, Y. (2023). The Effect of Applications related to Augmented Reality in Mathematics Lessons on the Development of Students' Geometric Thinking Levels and Spatial Ability. *Technology, Innovation and Special Education Research*, 3(2), 124–151. <https://doi.org/www.tiserjournal.com>
- Usher, E. L., Li, C. R., Butz, A. R., & Rojas, J. P. (2019). Perseverant grit and self-efficacy: Are both essential for children's academic success? *Journal of Educational Psychology*, 111(5), 877–902. <https://doi.org/https://doi.org/10.1037/edu0000324>
- Usiskin, Z. (1982). Van Hiele Levels and Achievement in Secondary School Geometry. CDASSG Project. *University of Chicago*, 1–9.
- Usmadi. (2017). Uji Tukey Dan Uji Scheffee Uji Lanjut (Post Hoc Test). *Jurnal of Information and Computer Technology Education*.
- Van de Walle, J. A., Karp, K. S., & Bay-Williams, J. M. (2019). *Elementary and Middle School Mathematics: Teaching Developmentally*. Pearson.
- Van Hiele, P. (1986). *Structure and Insight: A Theory of Mathematics Education*. Academic Press.
- Vasile, C., Marhan, A., Mihaela, F., & Stoicescu, D. (2011). Academic self-efficacy and cognitive load in students. *Procedia Social and Behavioral Sciences*, 12, 478–482. <https://doi.org/10.1016/j.sbspro.2011.02.059>
- Warma, P. N., Jayanti, & Marleni. (2025). Pengaruh penggunaan media manipulatif terhadap kemampuan numerasi siswa kelas III di SD Negeri 77 Palembang. *Jurnal Ilmiah Pendidikan Dasar*, 10.
- Wijayanto. (2018). *Pengembangan perangkat pembelajaran matematika dengan model Guided Discovery Learning*. Universitas Negeri Yogyakarta.
- Winangun, I. M. A., Wiguna, I. K. W., & Nugraha, M. A. (2021). Model Guided Discovery Learning Berorientasi Pembelajaran Abad 21 Bermuatan Tri Kaya Parisudha. *Jurnal Mimbar Ilmu*, 26(3), 355–363. <https://doi.org/https://doi.org/10.23887/mi.v26i3.39893>
- Winkel, willem S. (1987). *Psikologi Pengajaran*. Gramedia.
- Womack, S. T. (1989). Modes of Instruction Expository, Demonstration, Inquiry, Individualized. *Taylor & Francis*, 62(5), 205–210.

<https://doi.org/https://www.jstor.org/stable/30196914>

- Woolfolk, A. E. (2009). Educational psychology. In *Pearson Education*.
- Wu, D., & Ma, H.-L. (2005). A study of the geometric concepts of elementary school students at Van Hiele level one. *Proceedings of the 29th Conference of the International Group for the Psychology of Mathematics Education*, 4, 329–336.
- Wu, J., Jiang, H., Long, L., & Zhang, X. (2024). Effects of AR mathematical picture books on primary school students' geometric thinking, cognitive load and flow experience. *Education and Information Technologies*, 29(18), 24627–24652. <https://doi.org/10.1007/s10639-024-12768-y>
- Yerizon, Y., Putra, A. A., & Subhan, M. (2018). Student Responses Toward Student Worksheets Based on Discovery Learning for Students with Intrapersonal and Interpersonal Intelligence Student Responses Toward Student Worksheets Based on Discovery Learning for Students with Intrapersonal and Interpersona. *Materials Science and Engineering*, 335. <https://doi.org/10.1088/1757-899X/335/1/012113>
- Yurniwati, & Hanum, L. (2017). Improving mathematics achievement of indonesian 5th grade students through guided discovery learning. *Journal on Mathematics Education*, 8(1), 77–84.
- Zainal, Z. (2014). *Peringkat berpikir geometri siswa berdasarkan teori van hiele*. Global Research and Consulting Institute.
- Zimmerman, B. J. (2000). Self-Efficacy: An Essential Motive to Learn. *Contemporary Educational Psychology*, 25, 82–91. <https://doi.org/10.1006/ceps.1999.1016>