

DAFTAR PUSTAKA

- Abiam, P., Abonyi, O., Ugama, J., & Okafor, G. (2016). Effects of Ethnomathematics-based Instructional Approach on Primary School Pupils' Achievement in Geometry. *Journal of Scientific Research and Reports*, 9(2), 1–15. <https://doi.org/10.9734/jsrr/2016/19079>
- Adam, S. (2004). Ethnomatematical Ideas In the Curriculum. *Mathematics Education Research Journal*, 16(2), 49–68.
- Agustina Mahromah, L. (2013). Identifikasi tingkat metakognisi siswa dalam memecahkan masalah matematika berdasarkan perbedaan skor matematika. *Mathedunesa*, 2(1), 8.
- Aka, E. I., Güven, E., & Aydoğdu, M. (2010). Effect of problem solving method on science process skills and academic achievement. *Journal of Turkish Science Education*, 7(4), 13–25.
- Akbar, I. R., Anwar, C., & Siregar, H. J. (2021). *Teori Belajar dan Pembuatan Video Pembelajaran, Menggunakan Power Point, Canva dan Movie Maker*. Yayasan Sahabat Alam Rafflesia.
- Akbar, S. (2013). *Instrumen Perangkat Pembelajaran*. PT Remaja Rosdakarya.
- Alawiyah, Y., & Rukmi, S. A. (2021). Pengembangan Media Kartu Baca Berbasis Android Untuk Keterampilan Membaca Permulaan Siswa Kelas I Sekolah Dasar. *Jurnal Pendidikan Guru Sekolah Dasar*, 9(9), 1–11.
- Alkofahi, A. B., Jamaludin, M. A. Bin, & Lynn-Sze, N. (2015). Comparing the effects of 2D and 3D Mathematics animations on Jordanian first grade students. *ICREM7 2015 - Proceedings of the 7th International Conference on Research and Education in Mathematics: Empowering Mathematical Sciences through Research and Education*, 142–146. <https://doi.org/10.1109/ICREM.2015.7357042>
- Andrianingsih, I. (2022). Pengembangan Media Video Animasi Berbasis Etnomatematika Pada Bangun Ruang Kelas V Untuk Meningkatkan Hasil Belajar Siswa Sekolah Dasar Tahun Ajaran 2021/2022. *Jurnal Pacu Pendidikan Dasar*, 2(8.5.2017).
- Antero, G., & Haryudo, S. . (2016). Pengembangan Media Pembelajaran Berbasis Macromedia Flash 8 pada Mata Pelajaran Instalasi Penerangan Listrik. *Jurnal Pendidikan Teknik Elektro*, 5(2), 601–607.
- Ashari, B. A., & Wicaksono, V. D. (2023). Pengembangan Media Video Animasi Melalui Aplikasi Plotagon Untuk Materi Mematuhi Peraturan di Sekola Dasar. *Jpgsd*, 11(10), 2162–2171.
- Aslan, A. (2021). Problem- based learning in live online classes: Learning achievement, problem-solving skill, communication skill, and interaction. *Computers and*

- Education*, 171(May), 104237. <https://doi.org/10.1016/j.compedu.2021.104237>
- Barton, D. W. (1996). *Ethnomathematics : Exploring Cultural Diversity in Mathematics*. 1994.
- Baumanns, L., & Rott, B. (2019). Is problem posing about posing “problems”? A terminological framework for researching problem posing and problem solving. *Implementation Research on Problem Solving in School Settings*, August, 21–31. <https://doi.org/10.37626/ga9783959871167.0.02>
- Borg, W. R., & Gall, M. D. (1989). *Educational Research*. Logman.
- Branch, R. M. (2009). Instructional Design-The ADDIE Approach. In *Angewandte Chemie International Edition*, 6(11), 951–952. Springer Science & Business Media, LLC.
- Burkholder, E., Hwang, L., & Wieman, C. (2021). Evaluating the problem-solving skills of graduating chemical engineering students. *Education for Chemical Engineers*, 34, 68–77. <https://doi.org/10.1016/j.ece.2020.11.006>
- Cahyani, H., & Setyawati, R. W. (2016). Pentingnya Peningkatan Kemampuan Berpikir Kritis Melalui PBL untuk Mempersiapkan Generasi Unggul Menghadapi MEA. *PRISMA, Prosiding Seminar Nasional Matematika*, 151–160.
- Çetin, İ., & Özlem, D. (2022). Examination of the Relationship between TPACK Competencies and Mathematics Teaching Anxiety : The Mediating Role of Mathematics Anxiety. *International Journal of Modern Education Studies*, 6(1), 0–3.
- Cheng, S. C., She, H. C., & Huang, L. Y. (2018). The impact of problem-solving instruction on middle school students’ physical science learning: Interplays of knowledge, reasoning, and problem solving. *Eurasia Journal of Mathematics, Science and Technology Education*, 14(3), 731–743. <https://doi.org/10.12973/ejmste/80902>
- Dana, muhammad zakir, Alfin, T. mayasari, Gerald, mayang sari, & Ria, A. (2022). Pengembangan Film Animasi 3 Dimensi Tude The Movie-Hilangnya Handphone Bayu Saat Bermain Deduplak. *Journal of Computers in Mathematics and Science Teaching*, 32, 395–405.
- Darmayanti, N. W. S., & Wijaya, I. K. W. B. (2020). *Evaluasi Pembelajaran IPA*. Nilacakra.
- Dhillon, A. S. (1998). Individual differences within problem-solving strategies used in physics. *Science Education*, 82(3), 379–405. [https://doi.org/10.1002/\(SICI\)1098-237X\(199806\)82:3<379::AID-SCE5>3.0.CO;2-9](https://doi.org/10.1002/(SICI)1098-237X(199806)82:3<379::AID-SCE5>3.0.CO;2-9)
- Ertmer, P. A., & Ottenbreit-Leftwich, A. T. (2010). Teacher technology change: How knowledge, confidence, beliefs, and culture intersect. *Journal of Research on*

- Technology in Education*, 42(3), 255–284.
<https://doi.org/10.1080/15391523.2010.10782551>
- Fikri, H., & Madona, A. S. (2018). *Pengembangan Media Pembelajaran Berbasis Multimedia Interaktif*. Samudera Biru.
- Fiskha, S., & Heswari, S. (2022). Etnomatematika dalam Seni Anyaman Jambi Sebagai Sumber Pembelajaran Matematika. *Jurnal Inovasi Pendidikan*, 2(8).
- García, T., Boom, J., Kroesbergen, E. H., Núñez, J. C., & Rodríguez, C. (2019). Planning, execution, and revision in mathematics problem solving: Does the order of the phases matter? *Studies in Educational Evaluation*, 61, 83–93.
<https://doi.org/10.1016/j.stueduc.2019.03.001>
- Gazali, R. . (2016). Pengembangan Bahan Ajar Matematika Untuk Siswa SMP Berdasarkan Teori Belajar Ausubel. *Phytagoras: Jurnal Pendidikan Matematika*, 2, 182–192.
- Gok, T. (2014). Students' achievement, skill and confidence in using stepwise problem-solving strategies. *Eurasia Journal of Mathematics, Science and Technology Education*, 10(6), 617–624. <https://doi.org/10.12973/eurasia.2014.1223a>
- Guzmán Gámez, D. Y., & Moreno Cuellar, J. A. (2019). The use of plotagon to enhance the english writing skill in secondary school students. *Profile: Issues in Teachers' Professional Development*, 21(1), 139–153.
<https://doi.org/10.15446/profile.v21n1.71721>
- Hämäläinen, R., De Wever, B., Nissinen, K., & Cincinato, S. (2019). What makes the difference – PIAAC as a resource for understanding the problem-solving skills of Europe's higher-education adults. *Computers and Education*, 129, 27–36.
<https://doi.org/10.1016/j.compedu.2018.10.013>
- Hamzah, A. (2019). *Metode Penelitian & Pengembangan (Research & Development)*. Literasi Nusantara.
- Harefa, D., & La'ia, H. T. (2021). Media Pembelajaran Audio Video Terhadap Kemampuan Berpikir Kritis Matematika Siswa. *Aksara: Jurnal Ilmu Pendidikan Nonformal*, 7(2), 327. <https://doi.org/10.37905/aksara.7.2.327-338.2021>
- Harsela, J., Subhananto, A., & Fuas, A. Z. D. (2022). Pengembangan Video Animasi Untuk Meningkatkan Kemampuan Berpikir Kritis Siswa SD Kelas V Pada Materi KPK dan FPB. *Jurnal Ilmiah Mahasiswa*, 3.
- Haryanto, Nusantara, T., Subanji, & Rahardjo, S. (2017). Ethnomathematics In Arfak (West Papua- Indonesia): Numeracy Of Arfak. *International Journal of Scientific & Technology Research*, 6(09), 325–327.
- Hasanah, U., & Nulhakim, L. (2015). Pengembangan Media Pembelajaran Film

- Animasi Sebagai Media Pembelajaran Konsep Fotosintesis. *Jurnal Penelitian Dan Pembelajaran IPA*, 1(1), 91. <https://doi.org/10.30870/jppi.v1i1.283>
- Hu, R., Xiaohui, S., & Shieh, C. J. (2017). A study on the application of creative problem solving teaching to statistics teaching. *Eurasia Journal of Mathematics, Science and Technology Education*, 13(7), 3139–3149. <https://doi.org/10.12973/eurasia.2017.00708a>
- Indrayani, N., & Supian. (2022). Peningkatan Penanaman Budaya Melayu Jambi Untuk Membentuk Karakter Generasi Muda. *ETNOREFLIKA: Jurnal Sosial Dan Budaya*, 11(1), 78–89.
- Irwanto, Saputro, A. D., Rohaeti, E., & Prodjosantoso, A. K. (2018). Promoting critical thinking and Problem Solving Skills of Preservice Elementary Teachers through Process-Oriented Guided-Inquiry Learning (POGIL). *International Journal of Instruction*, 11(4), 777–794. <https://doi.org/10.12973/iji.2018.11449a>
- Iskandar. (2019). Pemanfaatan Media Pembelajaran Berbasis Teknologi Informasi dalam Meningkatkan Minat Belajar Peserta Didik Kelas VIII.2 di MTs Negeri Pinrang. *Central Library of State of Islamic Institute ParePare*, 18–138. <http://repository.iainpare.ac.id/1182/1/17.0211.011.pdf>
- Johnson, J. D., Smail, L., Corey, D., & Jarrah, A. M. (2022). Using Bayesian Networks to Provide Educational Implications: Mobile Learning and Ethnomathematics to Improve Sustainability in Mathematics Education. *Sustainability (Switzerland)*, 14(10). <https://doi.org/10.3390/su14105897>
- Kamid, Resmita, & Rohati. (2016). Analisis nilai-nilai budaya jambi yang terkandung dalam alat musik kelintang kayu yang berkaitan dengan pembelajaran pola barisan dan deret. *Jurnal Pendidikan Matematika*, 5(3).
- Kamid, Saputri, R., & Hariyadi, B. (2021). Pengembangan Soal Higher Order Thinking Skills Berbasis Budaya Jambi. *Jurnal Cendekia: Jurnal Pendidikan Matematika*, 05(02), 1793–1806.
- Kamid, Yuliya, S., & Muhaimin. (2020). Pengembangan Modul Panduan Guru Matematika Dalam Mendesain Pembelajaran PjBL Berbasis Budaya Jambi. *Jurnal Program Studi Pendidikan Matematika*, 9(2), 424–432.
- Kemendikbud, L. (2013). Pergeseran Paradigma Belajar Abad 21. *Badan Penelitian Dan Pengembangan, Kementrian Pendidikan Dan Kebudayaan*.
- Kester, L., Kirschner, P. A., & Van Merriënboer, J. J. G. (2005). The management of cognitive load during complex cognitive skill acquisition by means of computer-simulated problem solving. *British Journal of Educational Psychology*, 75(1), 71–85. <https://doi.org/10.1348/000709904X19254>
- Kinasih, S., & Sinaga, K. (2020). Kajian Penerapan Teori Pembelajaran Bermakna Ausubel Berdasarkan Perspektif Alkitabiah Pada Pembelajaran. *POLYGLOT:*

Jurnal Ilmiah, 16(2), 141–153.

- Koh, J. H. L., & Chai, C. S. (2014). Teacher clusters and their perceptions of technological pedagogical content knowledge (TPACK) development through ICT lesson design. *Computers and Education*, 70, 222–232. <https://doi.org/10.1016/j.compedu.2013.08.017>
- Kusuma, D. A., Dewanto, S. P., Nurani, B., Ruchjana, & Setiawan, A. (2017). The role of ethnomathematics in West Java (a preliminary analysis of case study in Cipatujah) The role of ethnomathematics in West Java (a preliminary analysis of case study in Cipatujah). *Jurnal of Physics: Conference Series* 893.
- Lestari, I. (2013). *Pengembangan Bahan Ajar Berbasis Kompetensi*. Akademia Permata.
- Mailizar, M., & Fan, L. (2020). Indonesian teachers' knowledge of ICT and the use of ICT in secondary mathematics teaching. *Eurasia Journal of Mathematics, Science and Technology Education*, 16(1), 1–13. <https://doi.org/10.29333/ejmste/110352>
- Marasabessy, R. (2020). Kajian Kemampuan Self Efficacy Matematis Siswa Dalam Berpikir Kritis Matematika. *JARTIKA Jurnal Riset Teknologi Dan Inovasi Pendidikan*, 3(2), 168–183. <https://doi.org/10.36765/jartika.v3i2.17>
- Maryati, & Prahmana, C. i. R. (2018). Ethnomathematics: exploring the activities of designing kebaya kartini. *MaPan: Jurnal Matematika Dan Pembelajaran*, 6(1), 11–19.
- Metallidou, P. (2009). Pre-service and in-service teachers' metacognitive knowledge about problem-solving strategies. *Teaching and Teacher Education*, 25(1), 76–82. <https://doi.org/10.1016/j.tate.2008.07.002>
- Muhammad, M. (2019). Analisis Teori Ausubel Pada Penerapan Model Realistic Mathematics Education Dalam Pembelajaran Matematika. *AL-MUDARRIS: Journal of Education*, 2(1), 104–120. <https://doi.org/10.32478/al-mudarris.v2i1.213>
- Mujahidawati, Novferma, Simatupang, G. M., Romundza, F., Frianto, A., & Putri, D. (2022). Pelatihan Pembuatan Film Animasi Menggunakan Aplikasi Toontastic 3d untuk Mendukung Minat Belajar Siswa SMP. *Sarwahita*, 19(01), 234–250. <https://doi.org/10.21009/sarwahita.191.20>
- Nahak, H. M. . (2019). Upaya Melestarikan Budaya Indonesia Di Era Globalisasi. *Jurnal Sosiologi Nusantara*, 5(1), 65–76. <https://doi.org/10.33369/jsn.5.1.65-76>
- Netriwati, & Lena, M. S. (2017). Media Pembelajaran Matematika. In *Afabeta* (Vol. 1, Issue May). Alfabeta.
- Nizwardi, J., & Ambiyar. (2016). *Media dan Sumber Belajar*. Kencana.
- Noor, M. (2010). *Media Pembelajaran Berbasis Teknologi*. PT Multi Kreasi

Satudelapan.

- Novotná, Jarmila, Eisenmann, P., Příbyl, J., Ondrušová, J., & Břehovský, J. (2012). Problem Solving in School Mathematics Based on. *Journal on Efficiency and Responsibility in Education and Science*, 7(1), 1–6. <https://doi.org/10.7160/eriesj.2013.070101>.Introduction
- Nurdyansyah. (2019). Media Pembelajaran Inovatif. In *Jurnal Penelitian Pendidikan Guru Sekolah Dasar* (Vol. 6, Issue August). Umsida Press.
- Öztürk, Ö. T. (2023). Examination of 21st Century Skills and Technological Competences of Students of Fine Arts Faculty. *International Journal of Education in Mathematics, Science and Technology*, 11(1), 115–132. <https://doi.org/10.46328/ijemst.2931>
- Phonapichat, P., Wongwanich, S., & Sujiva, S. (2014). An Analysis of Elementary School Students' Difficulties in Mathematical Problem Solving. *Procedia - Social and Behavioral Sciences*, 116(2012), 3169–3174. <https://doi.org/10.1016/j.sbspro.2014.01.728>
- Plomp, T., & Nieveen, N. (2013a). *Educational Design Research*. Netherlands Institute for Curriculum Development.
- Plomp, T., & Nieveen, N. (2013b). Educational Design Research Educational Design Research. In *Netherlands Institute for Curriculum Development: SLO*. <http://www.eric.ed.gov/ERICWebPortal/recordDetail?accno=EJ815766>
- Ramdani, A., Jufri, A. W., Gunawan, Fahrurrozi, M., & Yustiqvar, M. (2021). Analysis of students' critical thinking skills in terms of gender using science teaching materials based on the 5e learning cycle integrated with local wisdom. *Jurnal Pendidikan IPA Indonesia*, 10(2), 187–199. <https://doi.org/10.15294/jpii.v10i2.29956>
- Ramli, M. (2012). *Media dan Teknologi Pembelajaran*. Antasari Press.
- Rusdi, M. (2018). *Penelitian Desain dan Pengembangan Kependidikan (Konsep, Prosedur, Sintesis Pengetahuan Baru)*. PT. RAJAGRAFINDO PERKASA.
- Şad, S. N., & Göktaş, Ö. (2014). Preservice teachers' perceptions about using mobile phones and laptops in education as mobile learning tools. *British Journal of Educational Technology*, 45(4), 606–618. <https://doi.org/10.1111/bjet.12064>
- Saputra, E., Marhami, M., B, R., Mursalin, M., & Azmi, N. (2022). The development of media learning using plotagon software on circle material. *International Journal of Trends in Mathematics Education Research*, 5(2), 147–153. <https://doi.org/10.33122/ijtmr.v5i2.102>
- Saygili, S. (2017). Examining The Problem Solving Skills and The Strategies Used by High School Students in Solving Non-routine Problems. *E-International Journal of*

Educational Research, 8(2), 91–114.

- Serway, R. ., & Beichner, R. . (2000). *Physic for Scientists and Engineers, with Modern Physics*. Fort Worth. Saunders College Publishing.
- Shute, V. J., Wang, L., Greiff, S., Zhao, W., & Moore, G. (2016). Measuring problem solving skills via stealth assessment in an engaging video game. *Computers in Human Behavior*, 63, 106–117. <https://doi.org/10.1016/j.chb.2016.05.047>
- Siregar, S. (n.d.). *Metode Penelitian Kuantitatif dengan Perhitungan Manual dan SPSS*. Kencana.
- Sun, L. (2022). Research on the Application of 3D Animation Special Effects in Animated Films: Taking the Film Avatar as an Example. *Scientific Programming*, 2022. <https://doi.org/10.1155/2022/1928660>
- Sunzuma, G., Zezekwa, N., Gwizangwe, I., & Zinyeka, G. (2021). A Comparison of the Effectiveness of Ethnomathematics and Traditional Lecture Approaches in Teaching Consumer Arithmetic: Learners' Achievement and Teachers' Views. *Pedagogical Research*, 6(4), em0103. <https://doi.org/10.29333/pr/11215>
- Susanto, H. A. (2015). *Pemahaman Berpikir Kritis Berdasarkan Gaya Kognitif*. Deepublish.
- Susilana, R., & Riyana, C. (2017). *Media Pembelajaran: Hakikat, Pengembangan, Pemanfaatan dan Penilaian*. CV. Wacana Prima.
- Sutrimo, Kamid, & Saharudin. (2019). LKPD Bermuatan Inquiry dan Budaya Jambi : Efektivitas dalam Meningkatkan Kemampuan Berpikir Kreatif Matematis. *Indomath: Indonesian Mathematics Education*, 2(1), 29–36.
- Thohir, M., Muslimah, K. C., & Musyafa'ah, N. (2021). Prelude Aplikasi Plotagon Story Untuk Keterampilan Berbicara Pada Pembelajaran Bahasa Arab Sesuai KMA 183 Tahun 2019. *Tadarus: Jurnal Pendidikan Islam*, 10(1), 1–12. <https://www.plotagon.com/>.
- Ultra Gusteti, M., Rifandi, R., Gustya Manda, T., & Putri, M. (2021). The development of 3D animated video for mathematics learning in elementary schools. *Journal of Physics: Conference Series*, 1940(1). <https://doi.org/10.1088/1742-6596/1940/1/012098>
- Wahyu, M., Yazim, & Kairuddin. (2023). Penerapan Teori Belajar Van Hiele Berbantuan Video Animasi Untuk Meningkatkan Kemampuan Higherorder Thingking Skills (HOTS) Siswa Pada Materi Dimensi Tiga. *Jurnal Review Pendidikan Dan Pengajaran*, 6, 561–565.
- Wechsler, S. M., Saiz, C., Rivas, S. F., Vendramini, C. M. M., Almeida, L. S., Mundim, M. C., & Franco, A. (2018). Creative and critical thinking: Independent or overlapping components? *Thinking Skills and Creativity*, 27(November 2017),

114–122. <https://doi.org/10.1016/j.tsc.2017.12.003>

- Widjayanti, W. R., Masfingatin, T., & Setyansah, R. K. (2018). Media Pembelajaran Interaktif Berbasis Animasi Pada Materi Statistika Untuk Siswa Kelas 7 Smp. *Jurnal Pendidikan Matematika*, 13(1), 101–112. <https://doi.org/10.22342/jpm.13.1.6294.101-112>
- Zhang, W. (2010). Ethnomathematics and Its Integration within the Mathematics Curriculum. *Journal of Mathematics Education*, 3(1), 151–157.