

## DAFTAR PUSTAKA

- Ainun, N. (2015). Peningkatan kemampuan komunikasi matematis siswa Madrasah Aliyah melalui model pembelajaran kooperatif tipe TGT. *Jurnal Dikdaktik Matematika*. ISSN: 2355-4185. 2(1).
- Arifin, Z., dkk. (2016). Analisis kemampuan komunikasi matematis dalam penyelesaian masalah pada pokok bahasan sistem persamaan linear dua variabel. *Jurnal Edukasi Unej*, III (2): 9-12
- Arikunto, S. (2012). *Dasar-dasar evaluasi pendidikan, edisi 2*. Jakarta: Bumi Aksara.
- Bandura, A. (1982). Self-efficacy mechanism in human agency. *American Psychologist*, 37 (2), 122-147.
- Bandura, A. (1993). Perceived self-efficacy in cognitive development and functioning. *Educational Psychologist*, 28 (2), 117-148.
- Bandura, A. (1995). *Self-efficacy in changing societies*. United Kingdom: Cambridge University Press.
- Bandura, A. (1997). *Self-efficacy: The Exercise of Control*. New York: W. H. Freeman and Company.
- BKKBN (Badan Kependudukan dan Keluarga Berencana Nasional). (2016). *Negara harus siap bonus demografi*. <http://www.bkkbn.go.id>
- Brenner, M. E. (1998). Development of mathematical communication in problem solving group by language minority student. *Bilingual Research Journal*. 22:2,3, & 4.
- Bringula, R. P., Basa, R. S., Dela Cruz, C., & Rodrigo, M. M. T. (2016). Effects of prior knowledge in mathematics on learner-interface interactions in a learning-by-teaching intelligent tutoring system. *Journal of Educational Computing Research*, 54(4), 462-482.
- Cai, J., et al. (1996). Assessing student's mathematical communication. *Journal School Science and Mathematics*, 96 (5), 238-246.
- Carpenter, D.M. & Clayton, G. (2014). Measuring the relationship between self-efficacy and mathematics performance among first generation college-

- bound middle school students. *Middle Grades Research Journal*, 9 (2), 109-126.
- Creswell, J.W. (2013). *Research design: Pendekatan kualitatif, kuantitatif dan mixed*. Yogyakarta: Pustaka Pelajar.
- Dahlan, J. A. & Juandi, D. (2011). Analisis representasi matematik siswa sekolah dasar dalam penyelesaian masalah matematika kontekstual. *Jurnal Pengajaran MIPA*. 16.1.
- Danoebroto, S. W. (2015). Teori Belajar Konstruktivisme Piaget dan Vygotsky. *Indonesia Digital Journal of Mathematics and Education*. 2(3), 2015.
- Davidson, N., & Major, C. H. (2014). Boundary crossing cooperative learning, collaborative learning, problem based learning. *Journal on Excellence in College Teaching*. 25(3), 7-55.
- Depdikbud. (2016). *Permendiknas nomor 21 tahun 2016 tentang standar isi pendidikan dasar dan menengah*. Jakarta: Depdikbud.
- Depdiknas. (2006). *Permendiknas Nomor 22 tahun 2006 tentang standar isi sekolah menengah atas*. Jakarta: Depdiknas.
- Dewanto, S. P. (2008). Peranan kemampuan akademik awal, self efficacy, variabel nonkognitif lain terhadap pencapaian kemampuan representasi multipel matematis mahasiswa melalui pembelajaran berbasis masalah. *Educationist*. 11(2), 123-133.
- Dillenbourg, P. (1999). What do you mean by collaborative learning? *Collaborative-learning: Cognitive and Computational Approaches*. Oxford: Elsevier, 1-19.
- Djamarah, S. B. (2006). *Strategi belajar mengajar*. Jakarta: Rineka Cipta.
- Ezrailson., *et al.* (2006). Teaching through interactive engagement: communication is experience. *School Science and Mathematics*. 106 (7), 278-279.
- Faulkner, J., & Lathan, G. (2016). Adventurous lives: Teacher qualities for 21<sup>st</sup> century learning. *Australian Journal of Teacher Education*, 41 (4), 137-150.
- Fonna, M. (2013). *Penggunaan model pembelajaran kooperatif tipe cooperative integrated reading and composition untuk meningkatkan kemampuan*

- representasi dan pemecahan masalah matematis siswa*. Tesis. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Gagatsis, A., et al. (2009). *Student's Beliefs about The Use of Representation in The Learning of Fraction*. Cerme 6: working group 1.
- Garderen, D.V. (2003). Visual representation, mathematical problem solving, and student of varying abilities. *Learning Disabilities Research & Practise*, 18,(4), 246-254.
- Gerald, R. (2015). The world beyond the classroom: 21<sup>st</sup> century education technology and 4Cs. Diakses dari <http://story.com/RebeccaG27/4cs-in-education>.
- Gokhale, A. A. (1995). Collaborative learning enhances critical learning. *Journal of Technology Education*, 7(1).
- Goldin, G. A. (2008). Perspective on representation in mathematical learning and problem solving. English, D. & Kirshner, D. (ed.) *Handbook of International Research in Mathematics Education*. 176-201
- Guler, G., & Ciltas, A. (2011). The Visual Representation Usage Level of Mathematics Teachers and Students in Solving Verbal Problem. *International Journal of Humanities and Social Science*. 1. 1
- Hake, R. R. (1999). *Analyzing change/gain scores*. Woodland Hills: Indiana University.
- Herdiana, H & Sumarmo, U. (2014). *Penilaian pembelajaran matematika*. Bandung: PT Refika Aditama.
- Hesse, F. et al., (2015). A framework for teachable collaborative problem solving. *Assesment and Teaching of 21st*.
- Huang, J., & NorMandia, B. (2009). Students' perception on communicating mathematically: A case study of secondary mathematics classroom. *The International Journal of Learning*. 16 (5).
- Hutapea, N. M. (2012). *Peningkatan kemampuan penalaran, komunikasi matematis dan kemandirian siswa melalui pembelajaran generatif*. Tesis. Sekolah Pascasarjana Universtas Pendidikan Indonesia, Bandung.

- Hwang, *et al.* (2007). Multiple Representation Skills and Creativity Effects on Mathematical Problem Solving Using A Multimedia Whiteboard System. *Educational Technology & Society*, 10 (2), 191-212.
- Inprasitha, M., *et al.* (2012). A study of student's mathematical communication in teacher professional development. *Journal of Modern Education Review*. 2, (1), 38–46.
- Laguado, J. M. (2015). Cooperative learning approach in an outcomes based environment. *International Journal of Social Sciences, Arts, and Humanities*. 2(2). 46-55.
- Lestari, K. E. & Yudhanegara, M. R. (2015). *Penelitian Pendidikan Matematika*. Bandung: Refika Aditama.
- Liu, X. & Koirala, H. (2009). The effect of mathematics self efficacy on mathematics achievement of high school student. *NERA Confernce Proceeding 2009*.3.
- Lu, H. K. & Lin, P. C. (2017). A study of the impact of collaborative problem-solving strategies on students' performance of stimulation-based learning-a case of network basic concepts course. *International Journal of Information and Education Technology*. 7(5), 361-366.
- Mahmudi, A. (2016). Memberdayakan pembelajaran matematika untuk mengembangkan kompetensi masa depan. *Makalah seminar nasional matematika dan pendidikan matematika*. ISBN 978-602-73403-1-2.
- Margolis, H., & McCabe, P. P. (2006). Improving self-efficacy and motivation: What to do and what to say. *Intervention in School and Clinic*. 41. 218-227.
- Marlina, dkk., (2014). Peningkatan kemampuan komunikasi dan *self-efficacy* siswa SMP dengan menggunakan pendekatan diskursif. *Jurnal Dikdaktik Matematika*. ISSN: 2355-4185. 1(1). April 2014.
- Marynowsky, R. & Pelech, S. (2007). *Improving the self-efficacy using direct and focus approach to vocabulary clarification*. Brooke Prince. Faculty of education University of Lethbridge.
- Mustofa, A. U. (2014). *Meningkatkan kemampuan koneksi, representasi dan self-efficacy matematis siswa SMP melalui pendekatan formulate share listen*

- create*. Tesis. Sekolah pasca Sarjana Universitas Pendidikan Indonesia, Bandung.
- NCTM. (2000). *Principle and standard for school mathematics*. Reston, VA: NCTM.
- NCTM. (1989). *Curriculum and evaluation standard for school mathematics*. Reston, VA: NCTM.
- Niema, H., *et al.*, (2016). Digital storytelling for 21<sup>st</sup> century skills in virtual learning environments. *Creative Education*. 5(9). 451-468.
- Ostroff, W. L. (2013). *Understanding how children learn: bringing the science of child development to the classroom*. Jakarta: PT. Indeks. Terjemahan.
- Pajares, F. & Urdan, T. (2006). *Self-efficacy Beliefs Of Adolescents*. Greenwich Connecticut Information Age Publishing, Inc.
- Pakpahan, H. L. (2014). *Analisis self-efficacy dan kesalahan soal penalaran matematis SMA*. Tesis. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Panglipur, T. (2017). *Peningkatan kemampuan pemahaman matematis dan self-efficacy siswa melalui penerapan discovery based learning*. Tesis. Sekolah Pasca Sarjana Universitas Pendidikan Indonesia, Bandung.
- Pape, S. J. & Tchoushanov, M. A. (2001). The role of representation(s) in developing mathematical understanding. *Theory into practice*, 40. 2.
- Prabawanto, S. (2013). *Peningkatan kemampuan pemecahan masalah, komunikasi, dan self-efficacy matematis mahasiswa melalui pembelajaran dengan pendekatan metacognitive scaffolding*. Tesis. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Qohar, A. & Sumarmo, U. (2013). Improving Mathematical Communication Ability and Self Regulation Learning Of Yunion High Students by Using Reciprocal Teaching. *IndoMS. J. M. E.* 4, (1), 59-74.
- Quintana, M. G. B. & Fernandez, S. M. (2015). A pedagogical model to develop teaching skills: The collaborative learning in experience in the immersive virtual world TYMMI. *Computers in Human Behavior*. 51. 594-603.

- Ratumanan, T. G. & Theresia, L. (2003). *Evaluasi Hasil Belajar Yang Relevan Dengan Kurikulum Berbasis Kompetensi*. Surabaya: Unesa University Press.
- Retnowati, *et al.* (2016). Can collaborative learning improve the effectiveness of work examples in learning mathematics. *Journal of educational psychology*. Advance online publication. Diakses dari <http://dx.doi.org/10.1037/edu0000167>.
- Reigeluth. (1983). *Instructional-design theories models: A new paradigm of instructional theory*. Psychology Press
- Roschelle, J. & Teasley, S. (1995). *The construction of shared knowledge in collaborative problem solving*. Springer
- Sakrani. (2014). *Peningkatan kemampuan representasi matematis dan adversity quotient siswa SMP melalui pendidikan matematika realistik*. Tesis. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Sabirin, M. (2014). Representasi dalam pembelajaran Matematika. *JPM IAIN Antasari*. 01 (2), 33-44.
- Sengul, S. & Katranci, Y. (2014). Effect of jigsaw technique on mathematics self-efficacy perceptions of seventh grade primary school students. *Procedia-social and Behavior Science*, 116 (2014), 333-338.
- Shadiq. (2014). *Pembelajaran matematika: cara meningkatkan berpikir siswa*. Yogyakarta: Graha ilmu.
- Sudjana. (2005). *Metode statistik*. Bandung: Tarsito
- Sugiyono. (2012). *Metode penelitian pendidikan: Pendekatan kuantitatif, kualitatif, dan R & D*. Bandung: Alfabeta
- Suherman, E. (2003). *Evaluasi Pembelajaran Matematika*. Bandung: UPI
- Sumarmo. (2013). *Kumpulan makalah berpikir dan disposisi matematika serta pembelajarannya*. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Surya. *et al.* (2013). Improving of Junior High School Visual Thingking Representation Ability in Mathematical Problem Solving by CTL. *IndoMS. J. M. E* . 4 (1), 5.

- Suryowati. (2015). Kesalahan siswa dalam merepresentasikan pecaha pada garis bilangan. *Aksioma Jurnal Pendidikan Matematika*, 4 (1), 38-52.
- Sutikno, S. 2014). *Metode dan model-model pembelajaran*. Mataram: Holistica.
- Trihandayani, I. (2014). *Penerapan collaborative learning untuk meningkatkan kemampuan berpikir kritis dan komunikasi matematis siswa smp*. Tesis. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Urhahne, D. (2015) Teacher behavior as a mediator of relationship between teacher judgment and students' motivation and emotion. *Teaching and teacher education*, 45, 73-82.
- Usman, M. R. (2015). *Meningkatkan kemampuan berpikir kreatif dan komunikasi serta disposisi berpikir kreatif matematis siswa SMP melalui pembelajaran inkuiri model alberta*. Tesis. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Vallee, G. B. *et al.*, (2007). Visual spatial representation in mathematical problem solving by deaf and hearing student. *The Journal of Deaf education*, 12 (4) 423-448
- Verdianingsih, E. (2015). *Meningkatkan kemampuan pemahaman komunikasi dan self-esteem matematis siswa SMP melalui penerapan strategi mnemonic*. Tesis. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Ward, J.D. (2002). A review of problem-based learning . *Journal of Family and Consumer Science Education (JFCSE)*, 20 (1), 20-23.
- Widakdo, W. A., *et al.*, (2018). Prior knowledge to build the mathematical representation ability in geometry. *Proceedings of INTCESS 2018- 5th International Conference on Education and Social Sciences*, ISBN: 978-605-82433-2-3
- Widjajanti, B. D. 2010. *Analisis implementasi strategi perkuliahan kolaboratif berbasis masalah dalam mengembangkan kemampuan pemecahan masalah matematis kemampuan komunikasi matematis dan keyakinan terhadap pembelajaran matematika*. Disertasi. Sekolah Pascasarjana Universitas Pendidikan Indonesia, Bandung.
- Wilson, S. & Janes, D. P. (2008). *Mathematical Self-Efficacy: How Constructivist Philosophies Improve Self-Efficacy*. [Online]. Tersedia:

[http:// www. scribd.com/ doc/17461111/Mathematical-self-efficacy-how-constructivist-philosophies-improve-selfefficacy](http://www.scribd.com/doc/17461111/Mathematical-self-efficacy-how-constructivist-philosophies-improve-selfefficacy).

Yin, Y. K., *et al.* (2011). Collaborative Problem Solving Methods toward Critical Thinking. *International Education Studies*. 4(2). 59-60.