

DAFTAR PUSTAKA

- American Education Reaches Out [AERO] (2011). Mathematics: Crosswalk AERO and The Common Core. [Online]. Tersedia: http://www.projectaero.org/aero_standards/AERO-CommonCore.pdf (9 Mei 2017)
- Alam. (2013). Meningkatkan Kemampuan Pemahaman dan Komunikasi Matematis dengan Menggunakan Model Pendekatan *Realistic Mathematics Education* pada Siswa Sekolah Dasar. *Jurnal Pendidikan dan Keguruan* 2 (2). Hlm 25-37 (halaman 16)
- Alisah, E. & Dharmawan, E.P. (2007). Filsafat Dunia Matematika Pengantar untuk Memahami Konsep-Konsep Matematika. Jakarta: Prestasi Pustaka. (Halaman 3)
- Anthony dan Walshay. (2009). *Effective Pedagogy in Mathematica*. [Online]. Tersedia [Online]. Tersedia : (<http://www.iaaed.org>) diakses 1 Mei 2016 (Halaman 5)
- Arikunto S. (2002). Metodologi Penelitian. Jakarta : PT. Rineka Cipta (Halaman 41)
- Baines, E., Blatchford, P., & Kutnick, P. (2003). *Changes In Grouping Practices Over Primary And Secondary School*. *International Journal of Educational Research*, 39, 9e34. (halaman 97)
- Baines, E., Blatchford, P., & Kutnick, P. (2008). *Pupil Grouping For Learning: Developing A Social Pedagogy In The Classroom*. In R. Gillies, A. Ashman, & J. Terwel (Eds.), *The teacher's role in implementing cooperative learning in the classroom* (pp. 55e71). New York: Springer. (halaman 97)
- Baroody, A. J. (1993). *Problem Solving, Reasoning, and Communicating*. New York: Macmillan Publishing. (Halaman 4)
- Bistari, BsY. (2010). Pengembangan Kemandirian Belajar Berbasis Nilai untuk Meningkatkan Komunikasi Matematika. *Jurnal Pendidikan Matematika dan IPA* Vol.1 . No.1 Januari 2010:11-23. (halaman 13)
- Brener, M.E. (1998). *Development of Mathematical Communication in Problem Solving Groups by Language Minority students*. *Bilingual Research Journal*, 22:2,3 & 4 Spring, Summer, & Fall 1998. (halaman 15)

- Brophy, J. (1999). Perspective of Classroom Management: Yesterday, today and tomorrow. In H. Freiberg (ED), *Beyond Behaviorism: Changing the classroom management paradigm*, 43-56. Boston : Allyn and Bacon. (halamn 14-15)
- Brown, A. L., & Campione, J. C. (1994) Guided discovery a community of learners. In K. McGilly (Ed), *Classroom lessons: Integrating cognitive theory and classroom practice*. Cambridge, MA: MIT Press/Bradford Books.
- Brown, D. & Thomson, C. (2000). *Cooperative Learning In New Zealand Schools*. Palmerston North, New Zealand:Dunmore Press Limited (halaman 108)
- BSNP. (2006). Kurikulum Tingkat Satuan Pendidikan. Jakarta: Departemen Pendidikan Nasional (halaman 1)
- Cai. J., Lane. S., & Jakabcsin. M. S. (1996a). *The Role Of Open-Ended Tasks And Scoring Rubrics In Assessing Students' Mathematical Reasoning And Communication*. InP.C. Elliott (Ed.), *Communication in mathematics: K-12 and beyond* (pp. 137-145). Reston. VA: Author. (halaman 14)
- Cai. J., Lane. S., & Jakabcsin. M. S. (1996b). *Assessing Students' Mathematical Communication*. School Science and Mathematics Mathematical Communication Volume 96(5). (halaman 33)
- Carpenter , J & Gorg, S. (2000) *Principles anda Standars for School Mathematics*. Reston, VA: National Council of Teachers Mathematics. (halaman 12)
- Clements, D. H & Batista. (1992). *Geometry and Spacial Reasoning dalam D. A. Grows, (ed). Handbook of Research on Teaching and Learning Mathematics* (pp. 420-440). New York: McMilan Publisher
- Cohen, J. (1977). *Statistical Power Analysis For The Behavioral Science* (rev. ed.). New York: Academic. (halaman 29)
- Cohen, E. (1994). *Restructuring the classroom: conditions for productive small groups*. *Review of Educational Research*, 64, 1e35. (halaman 97)
- Coll, R.K & Chapman, R. (2000). *Choices of Methodology for Cooperative Education Research*. *Asia-Pacific Journal of Cooperative Education*. 1(1), 1-8 (halaman 1115)

- Creswell, W.J. (2010). *Research Design Pendidikan Kualitatif, Kuantitatif, dan Mixed*. Yogyakarta : Pustaka Pelajar (halaman 29)
- Crowley, M. L. (1987). *The Van Hiele Model Of The Development Of Geometric Thought*. In M.M.Lindquist (Ed.). *Learning and teaching geometry, K-12* (pp. 1-16). Reston, VA: National Council of Teachers of Mathematics. (halaman 19)
- Dahar, Ratna W. (2006). *Teori-Teori Belajar&Pembelajaran*. Jakarta : Erlangga (halaman 103)
- Depdiknas. (2006). *KTSP SD/MI*. Jakarta: Depdiknas (halaman 4)
- Deutsch, M. (2006). *Cooperative and Competition*. In M. Deutsch, P. T Coleman, & E. C Marcus (Eds). *The Handbook of Conflict Resolution : Theory and practice (23-42)*. San Francisco: Josey-Bass (halaman 24)
- Ervynck, G. (1991). *Mathematical creativity*. In D. Tall (Ed.), *Advanced mathematical thinking* (pp. 42-53). Dordrecht, Netherlands: Kluwer.
- Fachrurazi. (2011). “Penerapan Pembelajaran Berbasis Masalah Untuk Meningkatkan Kemampuan Berfikir Kritis dan Komunikasi Matematis Siswa Sekolah Dasar”. Edisi Khusus. 1, 76-89. (halaman 16)
- French, D. (2004). *Teaching and learning geometry*. London: Continuum (halaman 3)**
- Galton, M., Hargreaves, L., Comber, C., Wall, D., & Pell, T. (1999). *Changes in patterns of teacher interaction in primary classrooms: 1976e1996*. *British Educational Research Journal*, 25, 23e37.
- Gardner, H. (1999). *A Multiplicity of Intelligences: In tribute to Professor Luigi Vignolo*. *Scientific American* (halaman 16)
- Gavin, M. K., Casa, T. M., Adelson, J. L., Carroll, S. R., & Sheffield, L. J. (2009). *The impact of advanced curriculum on the achievement of mathematically promising elementary students*. *Gifted Child Quarterly*, 53, 188-202. doi:10.1177/0016986209334964
- Gilbert, John K. (2005). *Visualization: a metacognitive skill in science and science education*. In Gilbert, J.K. (Ed.), *Visualization in Science Education*. Dordrecht: Springer (halaman 15)
- Gillies, R., & Ashman, A. (1998). *Behavior And Interactions Of Children In*

Cooperative Groups In Lower And Middle Elementary Grades. Journal of Educational Psychology, 90, 746e757. (halaman 97)

Ginsburg, A., Leinwand, S., Anstrom, T. Pillock, E. And Witt, E. (2005). *What the United States can learn from Singapore's world-class mathematics system (and what Singapore can learn from the United States): An exploratory study*. NW, Washington : American Institute of Research. (halaman 12)

Grabringer, et.al. (1996). *Rich Environment for Active Learning in Action: Problem Based Learning*. Association for learning Technology Journal, 5 No 2 (halaman 16)

Grouws, D. A. & Cebulla, K. J. (2000) *Improving students achievement in mathematics* (Vol.4) Genf, Switzerland: International Academy of Education/International Bureau of Education.

Hake, R.R. (1999). *Analyzing Change/Gain Scores*. [Online]. Tersedia: <http://www.physics.indiana.edu/~sdi/AnalyzingChange-Gain.pdf> [18 November 2016] (halaman 45)

Herawati, S. (1994). Penelusuran Kemampuan siswa Sekolah Dasar dalam Memahami Bangun-Bangun Geometri. Studi Kasus di Kls V SD no 4. Purus Selatan. Tesis tidak diterbitkan. Malang Program Pasca Sarjana IKIP Malang.

Herlan, A. (2006). Mengembangkan Pembelajaran Berbasis Komputer untuk Meningkatkan Kemampuan Koneksi Matematika Siswa SMA. Tesis SPs Upi Bandung : Tidak Diterbitkan (halaman 45)

Holloway, J. H. (2003). Research link/Grouping gifted students. *Educational Leadership*, 61 (2), 89-91. Diakses dari <http://www.ascd.org/publications/educational-leadership/oct03/vol61/num02/-Grouping-Gifted-Students.aspx> (halaman 21)

Hudojo, H. (2001). Pengembangan Kurikulum dan Pembelajaran Matematika. Malang : Universitas Negeri Malang. (halaman 15)

Huiker, D dan Laughlin, C. (1996). "*Talk Your Way into Writing*". Dalam *Communication in Mathematics K-12 and Beyond*, 1996 year book. National Council Teacher of Mathematics. (halaman 13)

Irianto, Y. (1999). Upaya Mengatasi Kesulitan Siswa SD Kelas VI dalam Memahami Bangun Datar. Tesis tidak diterbitkan. Malang: IKIP Malang.

- Ismail. (2003). *Model-model Pembelajaran*. Jakarta: Direktorat PLP (halaman 24)
- Janvier, C. (1987). *Conceptions and representation: The Circle as an Example*. In Janvier (Ed). *Problem of Representation in The Teaching and Learning of Mathematics*. New Jersey: Lawrence Erlbaum Associates Publishers. (halaman 15)
- Johnson, D., & Johnson, F. (2003). *Joining together: Group theory and group skills (8th ed.)*. Boston: Allyn and Bacon. (halaman 6, 97, 111)
- Johnson, D. W., Johnson, R. T., & Smith, K. A. (2014). *Cooperative learning Improving university instruction by basing practice on validated theory*. *Journal on Excellence in College Teaching*, 25(3&4), 85-118. (halaman 105)
- Johnson, D. W., Johnson, R. T., & Holubec, E.J. (1994). *New Circles of Learning Cooperation in the Classroom and School*. The Association for Supervision and Curriculum Development. [Online]. Tersedia: <http://www.ascd.org/publication/books/194034/chapters/Essential-Components-of-Cooperative-Learning.aspx>. (9 Mei 2017) (halaman 119)
- Jolliffe, W. (2007). *Cooperative Learning in Classroom*. SagePublication (halaman 6)
- Jones, K. & Mooney, C. (2003). *Making Space For Geometry In Primary Mathematics*. In I.Thompson (Ed.), *Enhancing Primary Mathematics Teaching and Learning* (pp3-15). London:Open University Press. (halaman 3)
- Joyce, B. (2009). *Models of Teaching: Advance Organizer*. New Jersey: Pearson education Inc. 247-261 (Halaman 26)
- Kennedy. (1994). *Guiding Childrens Learning of Mathematics*. California : Wadsworth Publishing Company (halaman 3)
- Kramarski, B. and Mizrachi, N. (2004). *Enhancing Mathematical Literacy With The Use Of Metcognitive Guidance Forum Discucion*. *Proceedings of the 28th Conference of the International Group for the Psychology of Mathematics Education*, Vol 3 pp 169–176 (halaman 6)
- Kurniawan, R (2011) *Peningkatan Kemampuan Pemahaman dan Pemecahan Masalah Matematis melalui Pembelajaran dengan Pendekatan Kontekstual pada Siswa Sekolah Menengah Kejuruan No Panggil D MAT*

KUR p-2010. S3 thesis, Universitas Pendidikan Indonesia. (halaman 17)

Lim, L dan Pugalee, D.K. (2005). *Using Journal Writing to Explore “They Communicate to Learn Mathematics and They Learn to Communicate Mathematically”*. {[Online]. Tersedia : <http://www.nipissingu.ca.oar/new-issue-V277E.html> (halaman 2)

Loveless, T. (2013). *The resurgence of ability grouping and persistence of tracking* [Report]. Diakses dari <http://www.brookings.edu/research/reports/2013/03/18-tracking-ability-groupingloveless> (halaman 22)

McNeil, N. M., Grandau, L., Knuth, E. J., Alibali, M. W., Stephens, A. C., Hattikudur, S., & Krill, D. E. (2006). Middleschool students' understanding of the equal sign: The books they read can't help. *Cognition and Instruction*, 24, 367–385. doi:10.1207/s1532690xci2403_3

Mercer, C. D. and Mercer, A. R. (1998). *Teaching Students with Learning Problems (fifth edition)*. Upper Saddle River, NJ: Prentice Hall (halaman 21)

Miller, S. P., & Hudson, P. J. (2006). Helping students with disabilities understand what mathematics means. *TEACHING Exceptional Children*, 39(1), 28–35. (halaman 16)

Minium, W. E., King, M. B., dan Bear, R. G. (1993). *Statistical Reasoning In Psychology and Education*. Canada : Wiley. (halaman 88)

NCTM. (1989). *Curriculum and Evaluation Standard for School Mathematics*. Virginia: The NCTM Inc. (halaman 4)

NCTM. (2000). *Principles and Standards for Schools Mathematics*. USA : Reston. V.A (halaman 2)

Noddings, N. (1995). *Philosophy of education*. Oxford: Westview Press. (halaman 24)

Nur'aeni.(2000). Model Pembelajaran untuk Memahami Kosep Unsur-Unsur Bangun Ruang Kubus dan Balok berdasarkan Kesalahan Siswa Kelas V Sekolah Dasar. Tesis tidak diterbitkan. Malang: IKIP Malang.

- Nur'aeni. (2008). Pengembangan kemampuan komunikasi geometris siswa sekolah dasar melalui pembelajaran berbasis teori van hiele. *Jurnal sang guru*, vol 1 (2) pp 28-34 (halaman
- Nurhasanah, S. (2010). Penerapan Model Pembelajaran Kooperatif Tipe Stad Untuk Meningkatkan Pemahaman Peristiwa Proklamasi Indonesia Dalam Pelajaran IPS Pada Siswa Kelas V sd negeri 01 Pereng Karanganyar Tahun Pelajaran 2009.2010/ [online]. Diakses dari <http://digilib.uns.ac.id/upload/dokumen/174800601201110171.pdf.html/> (halaman 22)
- Pamungkas, A. S. (2013). Model Pembelajaran Eksploratif untuk Meningkatkan Nerpikir Logis Matematis dan Self Concept Matematis Siswa SMP (Studi Kuasi Eksperimen pada siswa SMP di Kabupaten Pandeglang). Tesis SPs UPI Bandung : Tidak diterbitkan. (halaman 32)
- Peressini, D dan Bassett, J. (1996). *Mathematical Communication in Student's Responses to a Performance-Assesment Task*. Communication in Mathematics K-12 and Beyond. Virginia: NCTM. (halaman 4)
- Perkin, D. N., & Unger, C. (1999). *Teaching and Learning for Understanding*. dalam Reigeluth, C.M. (Ed): *Instructional design theories and models: A new paradigm of instructional theory*, volume 11. 91-114. Englewood Cliffs, NJ: Lawrence Erlbaum Associates, Publisher. (halaman 4)
- Peterson, L. P. (1979). *Direct Instruction: Effective for What and Whom?*. Texas: Association for Supervision and Curriculum Development. (halaman 115)
- Piaget, J. (1970). *The Science of Education and the Psychology of the Child*. New York: Grossman (halaman 109)
- Prabawanto, S. (2013). Peningkatan Kemampuan Pemecahan Masalah, Komunikasi, dan *Self-Efficacy* Matematis Mahasiswa Melalui Pembelajaran dengan Pendekatan *Metacognitive Scaffolding*. Disertasi SPs UPI Bandung. Tidak diterbitkan. (halaman 39)
- Presmeg, N. (2006). *Research On Visualization In Learning And Teaching Mathematics*. In A.Gutierrez & P.Boero (Eds.), *Handbook of Research on the Psychology of Mathematics Education: Past, Present and Future* (pp. 205-236). Sense Publishers. (halaman 3)
- Prevost, F. J. (1985). *Geometry In The Junior High School*. *Mathematics Teacher*, 78, 411-418. (halaman 19)

- Qohar, A. (2009). Pemahaman Matematis Siswa Sekolah Menengah Pertama Pada Pembelajaran Dengan Model Reciprocal Teaching. Yogyakarta : Seminar Nasional Matematika Dan Pendidikan Matematika. Pp 453-465. (halaman 20)
- Robertson, and Lang. (1991). In Saskatchewan Education. *Instructional Approaches: A Framework for Professional Teachers*. Region SK: Saskatchewan Education (halaman 29)
- Ruseffendi, E.T. (2005). Dasar-Dasar Penelitian Pendidikan dan Bidang Non-Eksakta Lainnya. Bandung: Tarsito. (halaman 19)
- Ruseffendi, E.T. (1998). Pengajaran Matematika Untuk Meningkatkan CBSA. Bandung: Tarsito. (halaman 17)
- Rusman. (2011). Model-model Pembelajaran Mengembangkan Profesionalisme Guru. Jakarta: PT Raja Grafindo Persada. (halaman 19)
- Rusmini. (2008). Meningkatkan Kemampuan Penalaran dan Komunikasi Matematis Siswa SMP Melalui Pendekatan Pembelajaran Kontekstual Berbantuan Proram Cabri Geometri 2. Tesis pada PPS UPI Bandung: Tidak diterbitkan. (halaman 36)
- Samosir, M. (2011). Psikologi Pendidikan Teori dan Praktik. Jakarta : Indeks. (halaman 125)
- Santrock, J. W. (2007). *Child Development*, eleventh edition. New York :The McGraw-Hill Companies (halaman 117)
- Sharpe, B. (1998). *Cooperative Learning : How Can Teacher Gain Expertise In Using It?*, journal of social studies research. Hlm 33-45 (halaman 24)
- Silver, E. A., & Metzger, W. (1989). Aesthetic influences on expert mathematical problem solving. In D. McLeod & V. Adams (Eds.), *Affect and mathematical problem solving* (pp. 59-74). New York, NY: Springer-Verlag.
- Sriraman, B. (2005). Are giftedness and creativity synonyms in mathematics? *Journal of Secondary Gifted Education*, 17, 20- 36. doi:10.4219/jsge-2005-389
- Tannenbaum, A. J. (1983). *Gifted children: Psychological and educational perspectives*. New York, NY: Macmillan.
- Slavin, Robert E. (1995). *Cooperative Learning. Theory, Research, and Practice: Second Edition*. Boston: Allyn and Bacon (halaman 6, 22)

- Slavin, R.E. (1996). Research on Cooperative Learning and Achievement: What We Know, What We Need to Know, *Contemporary Educational Psychology*, (21) 43-69. [Online]. Tersedia : http://www.konferenslund.se/pp/TAPPS_SLavin.pdf (9 Mei 2017)
- Soetjipto, PH. (2009). *Educational Psychology : Active, Learning Edition* Yogyakarta: Pustaka Pelajar (halaman 119)
- Suherman, E., dkk. (2003). Evaluasi Pembelajaran Matematika. Bandung : FPMIPA UPI. (halaman 18,36-38)
- Sumarmo, U. (2005). Pengembangan Berpikir Matematik Tingkat Tinggi Siswa SLTP dan SMU serta Mahasiswa Strata Satu melalui Berbagai Pendekatan Pembelajaran. LPPM UPI : Laporan Penelitian Hibah Pascasarjana. **(halaman 5, 14)**
- Suriasumantri, J.S. (2007). Filsafat Ilmu Sebuah Pengantar Populer. Jakarta: Pustaka Sinar Harapan (halaman 3)
- Suryadi, D. (2010). Menciptakan Proses Belajar Aktif: Kajian Dari Sudut Pandang Teori Belajar dan Teori Didaktik, Handout Seminar . Bandung : tidak diterbitkan (halaman 3)
- Tieso, C. L. (2002). *The Effects of Grouping and Curricular Practices on Intermediate Students' Math Achievement* (RM 02154). Storrs:University of Connecticut, The National Research Center on the Gifted and Talented. (halaman 21)
- Tn. (2005). *The Ontario Curriculum Grades 1-8*. [Online]. This publication is available on the Ministry of Education's website, at <http://www.edu.gov.onca>. (halaman 1)
- Trianto. (2009). Mendesain Model Pembelajaran Inovatif-Progresif. Jakarta : Kencana (halaman 24)
- Usiskin, Z. (1982). *Van Hiele Levels and Achievement In Secondary School Geometry*. Chicago : The University of Chicago (halaman 3, 18)
- Uyanto, S.S. (2006). Pedoman Analisis Data dengan SPSS. Jakarta : (halaman 82)
- Van Hiele. (1986). Structure and Insight: A Theory of Mathematics Education (Developmental Psychology). Orlando, FI: Academic Press. (halaman 23)
- Vygotsky, L. S. (1978). *Mind in Sociaty: The Development og Higher*

Psychological processes. Cambridge, MA: Harvard University Press.
(halaman 109)

Wahyudin. (2012). *Matematika dasar Pengetahuan Bermuatan Pedagogis*.
Bandung : Penerbit Mandiri. (halaman 6)

Webb, N., Franke, M., De, T., Chan, A., Freund, D., Shein, P., et al. (2009).
*Explain to your partner: teachers' instructional practices and students'
dialogue in small groups*. Cambridge Journal of Education, 39, 49e70.
(halaman 97)

Winarno. (2004). *Pembelajaran Mtematika Kooperatif*. Yogyakarta : PPPG
Matematika (halaman 92)

Woolfolk H, A. (2004). *Educational Psychology 9th Edition*. USA:Pearson
(halaman 94)

Yackel, E., Cobb, P., & Wood, T. (1993). *Developing a basis for mathematical
communication within small groups*. Journal for Research in Mathematics
Education, 6, 33-44, 115-122