

DAFTAR PUSTAKA

- Ainley, J., Bills, L., & Wilson, K. (2005). *Designing spreadsheetbased tasks for purposeful algebra*. International Journal of Computers for Mathematical Learning, 10(3), 191–215.
- Andrade, J. S. (2007). “*Metaphors And Cognitive Modes In The Teaching-Learning Of Mathematics*” Working Group 1. CERME 5 (2007).
- Anggraeni, Y (2010). “*Peningkatan Kemampuan Penalaran dan Komunikasi Matematis Siswa SMP Melalui Reciprocal Tecahing*”. Thesis PPs UPI. Bandung; tidak diterbitkan.
- Araya, R.: 2000, *La Inteligencia Matemática*, Ed. Universitaria, Santiago, Chile.
- Arikunto, S., (2002). *Prosedur Penelitian*. Jakarta: Rineka Cipta.
- Badan Standar Nasional Pendidikan (BSNP, 2006). *Panduan Penyusunan Kurikulum Tingkat Satuan Pendidikan Jenjang Pendidikan Dasar dan Menengah*. Jakarta: Badan Standar Nasional Pendidikan.
- Badudu, J. S (2009). “*Kamus Ungkapan Bahasa Indonesia*”. Jakarta: Kompas.
- Becker, J. R., & Rivera, F. (2005). *Generalization strategies of beginning high school algebra students*. In H. L. Chick, & J. L. Vincent (Eds.). Proceedings of the 29th Conference of the International Group for the Psychology of Mathematics Education (Vol. 4, pp. 121–128). Melbourne: PME.
- Bills, C.: 2003, *Metaphor In Young Children's Mental Calculation*, Proc. CERME 3, http://www.dm.unipi.it/~didattica/CERME3/proceedings/Groups/TG1/TG1_bills_c_erne3.pdf [29 Juli 2012]
- Bishop (ed.), *Mathematical Knowledge: Its Growth Through Teaching*, Kluwer Academic Publishers, Dordrecht, pp. 63–85.
- Bolite, F. J; Acevedo, J, & Font, V: *Metaphors In Mathematics Classrooms: Analyzing The Dynamic Process Of Teaching And Learning Of Graph Functions*.

Mukhtar , 2013

Peningkatan Kemampuan Abstraksi Dan Generalisasi Matematis Siswa Sekolah Menengah Pertama Melalui Pembelajaran Dengan Pendekatan *Metaphorical Thinking*
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- Bolite Frant, J. et al. (2004). *Reclaiming Visualization: When Seeing Does Not Imply Looking*. TSG 28, ICME 10, Denmark [http://www.icme-organisers.dk/tsg28/] [3 Agustus 2012]
- Carolyn, C dan Pluker, J (2010). *Critical Issues And Practices In Gifted Education*. By National Association For Gifted Children.
- Carreira, S. (2001). *Where There's a Model, There's a Metaphor: Metaphorical Thinking in Students' Understanding of a Mathematical Model*. An International Journal Mathematical Thinking and Learning. 3 (4), 261-287
- Cox, Bill (2003). *Researching the Teaching and Learning of Mathematics: Proceedings of MATHED Intensive Programme 2003 How can we inspire our mathematics students?.* Aston University and MSOR Subject Centre of the Higher Education Academy
- Dahiana, W O (2010). *Peningkatan Kemampuan Pemahaman dan Generalisasi Matematis siswa dengan pembelajaran dengan pendekatan induktif-deduktif berbasis konstruktivisme*. Tesis PPs UPI. Bandung; tidak diterbitkan.
- Dahlan, J. A., (2004). *Meningkatkan Kemampuan Penalaran dan Pemahaman Matematika Siswa Sekolah Menengah Lanjutan Tingkat Pertama Melalui Pendekatan Pembelajaran Open-Ended*. Disertasi pada PPs UPI Bandung: Tidak dipublikasikan.
- Davydov, V. (1972/1990). *Type Of Generalization In Instruction: Logical And Psychological Problems In The Structuring Of School Curricula*. In J. Kilpatrick (Ed.), *Soviet studies in mathematics education (Vol. 2)*. Reston, VA: National Council of Teachers of Mathematics.
- Departemen Pendidikan Nasional, Direktorat Jenderal Pendidikan Dasar dan Menengah, Direktorat Pendidikan Lanjutan Pertama (2002). *Materi Pembelajaran Terintegrasi Matematika Tahun 2004 MTK 26*, Jakarta Depdiknas.
- DePorter, B., dan Hernacki, M. (1999). *Quantum Learning: Membiasakan Belajar Nyaman dan Menyenangkan*. Bandung: Kaifa

Mukhtar , 2013

- Dewanto, S.P. (2003). *Upaya Meningkatkan Kemampuan Berpikir Tingkat Tinggi melalui Pembelajaran dengan Menggunakan Pendekatan Induktif-Deduktif*. Tesis PPs UPI. Bandung; tidak diterbitkan.
- Dorfler, W.: 1991, 'Forms and means of generalization in mathematics', in A.J. _____ . (1991). *Forms And Means Of Generalization In Mathematics*. In A. J. Bishop (Ed.), *Mathematical knowledge: Its growth through teaching* (pp. 63–85). Dordrecht, Netherlands: Kluwer.
- Dreyfus, T. (2001). The Construction of Abstract Knowledge in Interaction. *Proceeding of the 25th Conference of the International Group for the Psychology of Mathematics Education*. (Vol.2, pp.377-384). Utrecht, The Netherland: PME.
- _____. (2002). *Advanced Mathematical Thinking Process*. Mathematics Education Library (Vol. 11. Pp 25-41). New York: Kluwer Academic Publisher.
- Dubinsky, Ed. (2002). *A Radical Constructivist does CL*. [Online] [4 Agustus 2012]
- Dubinsky, Ed
- Edi (2012). Pengaruh penggunaan model pembelajaran *anchored instruction* terhadap kemampuan komunikasi matematis dan *self-concept* siswa. Tesis PPs UPI. Bandung; tidak diterbitkan
- Endarmoko, E. (2006). *Tesaurus Bahasa Indonesia*. Jakarta Gramedia Pustaka Utama
- Edwards, L.: 2005, *Metaphors and Gestures in Fraction Talk*, Proc. CERME 4, http://ermeweb.free.fr/CERME4/CERME4_WG1.pdf [8 Agustus 2012]
- English, L. (ed.): 1997, *Mathematical Reasoning: Analogies, Metaphors, And Images* Lawrence Erlbaum Associates, London.
- _____: *Mathematical reasoning: Analogies, metaphors, and images* (pp. 339-371). Mahwah, New Jersey: Lawrence Erlbaum Associates.
- Ferrara, F.: 2003, *Bridging perception and theory: What role can metaphors and Imagery play?* Proc. CERME 3, http://www.dm.unipi.it/~didattica/CERME3/proceedings/Groups/TG1/TG1_ferrara_cerme3.pdf [1 Agustus 2012]

Mukhtar , 2013

- Ferrari, P. (2003). *Abstraction in Mathematics*. Dipartimento di Science e Technologie Avanzate, Unversita delp Piemonte Oreintale, corso T. Borsalino 54, 15100 alesandria AL. Italy: The Royal Society.
- Font, V. (2000). *Procediments Per Obtenir Expressions Simbòliques a Partir de Gràfiques. Aplicacions a Les Derivades*. Tesis doctoral no publicada. Universitat de Barcelona.
- Font, V. & Acevedo, J. I. (2003). *Fenómenos Relacionados Con el uso de Metáforas en el Discurso del Profesor. El caso de las Gráficas de Funciones*. Enseñanza de las Ciencias, 21, 3, 405-418.
- Groth, R. E & Bergner, J. A (2005). “Pre-Service Elementary School Teachers’ Metaphors For The Concept Of Statistical Sample” Statistics Education Research Journal, 4(2), 27-42, <http://www.stat.auckland.ac.nz/serj> © International Association for Statistical Education (IASE/ISI), Nov, 2005 [7 Agustus 2012]
- García C, J. A & Martinón, A (1998). level of generalization in linear pattern. Universidad de La Laguna : *Proceeding of the 22nd Conference of the International Group for the Psychology of Mathematics Education, Vol 2, pp 329-336. University of Stellenbosch, South Africa (1998)*.
- Harel, G & Tall, D (1989). “The General, the Abstract, and the Generic in Advanced Mathematics” *For the Learning of Mathematics*, 11 1, 38–42 (1989).
- Harel, G., & Tall, D. (1991). *The General, The Abstract And The Generic In Advanced Mathematics*. For the Learning of Mathematics, 11(1), 38–42.
- Hilman, M (2010). *Meningkatkan Kemampuan Generalisasi Matematis Siswa SMA melalui Pembelajaran dengan Model Investigasi Kelompok*.
- Heris, Hendriana (2010). *Peningkatan kemampuan pemahaman dan komunikasi matematis siswa Sekolah Menengah Pertama melalui pembelajaran dengan menggunakan pendekatan Methaporical Thinking*. Disertasi PPs UPI. Bandung; tidak diterbitkan.
- Hudoyo, H. (2001). *Pengembangan Kurikulum dan Pembelajaran Matematika*. Malang: Universitas Negeri Malang.

Mukhtar , 2013

- Johnson, M. & Lakoff, G.: 2003, *Metaphors We Live*. The University of Chicago Press, N.Y.
- Kamus Besar Bahasa Indonesia (2005). Departemen Pendidikan Nasional Jakarta: Balai Pustaka
- Kappel, F., 2001, “The Role of Mathematics in the 21st Century” *Makalah dalam Seminar Nasional Matematika di Universitas Brawijaya pada tanggal 6 Agustus 2001, Malang : Universitas Brawijaya.*
- Lakatos, I.: Proofs and refutations: The logic of mathematical discovery. Cambridge University Press, Cambridge (1976)
- Lakoff, G. & Núñez, R. (2000). *Where Mathematics Comes From: How The Embodied Mind Brings Mathematics Into Being*. New York: Basic Books.
- Lee, L.: 1996, ‘An initiation into algebraic culture through generalization activities’, in N.Bednarz, C. Kieran and Lee, L. (eds.), *Approaches to Algebra: Perspectives for Research and Teaching*, Kluwer Academic Publishers, Dordrecht, pp. 87–106.
- Leino, A.L. & Drakenberg, M. (1993). *Metaphor: An Educational Perspective*. Research Bulletin 84, Department of Education, University of Helsinki.
- Michelmore, M & White, P. (2004). Abstraction in Mathematics and Mathematics Learning. *Proceeding of the 28th Conference of the International Group for the Psychology of Mathematics Education*. Vol 3 hal 329-336
- Mason, J. (1999). *Learning And Doing Mathematics*. (2nd revised edition). York, UK: QED.
- Maulana (2010). *Alternatif pembelajaran matematika dengan pendekatan metakognitif untuk meningkatkan kemampuan berpikir kritis mahasiswa PGSD*. Tesis SPS UPI Bandung: Tidak diterbitkan.
- Mason, J. (2001). *Tunja Sequences As Example Of Employing Students; Power To Generalize*. *Mathematics Teacher*, 94(3), 164–169.
- Mason, J. (2002). *Researching Your Own Practice: The Discipline Of Noticing*. London, UK: Routh ledge Falmer.

Mukhtar , 2013

- Mason, J. (2006). *What Makes An Example Exemplary: Pedagogical and didactical issues in appreciating multiplicative structures*. In _____, *Structured Variation Grids*. Available: <http://msc.open.ac.uk/jhm3/>. [3 Agustus 2012]
- Mason, J., Burton, L., & Stacey, K. (1985). *Thinking mathematically*. Reading, massachusetts: Addison-Wesley Publishing Company.
- Mason, J., & Pimm, D. (1984). *Generic Examples: Seeing The General In The Particular*. *Educational Studies in Mathematics*, 15, 277–289.
- Monaghan, J. & Ozmantar, M.F. (2004). Abstraction and consolidation. In M. J. Høines & A. B. Fuglestad (Eds.), *Proceedings of the 28th International Conference for the Psychology of Mathematics Education, Vol. 3* (pp. 353-360). Bergen, Norway: Bergen University College.
- Murtiyasa, Budi (2010). *Strategi pengembangan pembelajaran matematika pada abad XX*. Universitas Muhammadiyah Surakarta.
- NCTM, (2000). *Princip And Standars For School Mathematics*. Reston: Virginia.
- Neni, (2010). Peningkatan Pemahaman dan disposisi matematis siswa dengan pembelajaran melalui pendekatan *Metaphorical Thinking*. Tesis SPS UPI Bandung: Tidak diterbitkan.
- Núñez, R. (2000). *Mathematical Idea Analysis: What Embodied Cognitive Science Can Say About The Human Nature Of Mathematics*, en Nakaora T. y Koyama M. (eds.).
- Nurhasanah, F. (2010). *Abstraksi Siswa SMP Dalam Belajar Geometri Melalui Penerapan Model Van Hiele Dan Geometers' Sketchpad*. Tesis SPS UPI Bandung: Tidak diterbitkan.
- Orton, A., & Orton, J. (1999). *Pattern And The Approach To Algebra*. In A. Orton (Ed.), *Pattern in the teaching and learning of mathematics* (pp. 104–120). London, UK: Cassell.
- Parzysz, B. et al.: 2003, *Introduction To Thematic Working Group 1, Role Of Metaphors And Images In Learning And Teaching Mathematics*, Proc. CERME

Mukhtar , 2013

3,http://www.dm.unipi.it/~didattica/CERME3/proceedings/Groups/TG1/TG1_introduction_cerme3.pdf [5 Agustus 2012]

- Pesci, Angela. (2004). *Mediation Of Metaphorical Discourse In The Reflection On One's Own Individual Relationship With The Taught Discipline: an experience with mathematics teachers* Department of Mathematics, University of Pavia.
- Pouilloux J.-Y.: 2004, *Article Sur La Métaphore*, Encyclopædia Universalis, Paris.
- Presmeg, N. C.: 1997, Reasoning With Metaphors And Metonymies In Mathematics Learning, in English (ed.), *Mathematical reasoning: Analogies, metaphors, and images*, Lawrence Erlbaum Associates, London, pp. 267-279. *Proceedings of PME24 (vol.1, pp. 3-22)*. Hiroshima: Hiroshima University.
- Radford, L. (2003). *Gestures, Speech, And The Sprouting Of Signs: A Semiotic-Cultural Approach To Students' Types Of Generalization*. *Mathematical Thinking and Learning*, 5(1), 37–70.
- _____. *Prototypes, Metaphors, Metonymies, And Imaginative Rationality In High School Mathematics*. *Educational Studies in Mathematics*, 23 (6), 595-610.
- _____. *Reasoning With Metaphors And Metonymies In Mathematics Learning*. In L. D. English (Ed.), *Mathematical reasoning: Analogies, metaphors, and images* (pp. 267-279). Mahwah, New Jersey: Lawrence Erlbaum Associates.
- Rahman, B (2012). “pembelajaran matematika, khususnya materi geometri dengan *Wingeom* untuk meningkatkan kemampuan spasial dan penalaran matematis siswa”. Thesis PPs UPI. Bandung; tidak diterbitkan.
- Risna (2011). Pembelajaran Geometri dengan *Wingeom* untuk Meningkatkan Kemampuan Penalaran dan Spasial Matematis Siswa. Tesis SPS UPI Bandung: Tidak diterbitkan.
- R. Zazkis and S.R. Campbell (Eds.), *Number Theory In Mathematics Education: Perspectives And Prospects* (pp. 41– 68). Lawrence Erlbaum Press.
- R. Zazkis et al. (2008). *The Role Of Examples In Forming And Refuting Generalizations*. *ZDM Mathematics Education* (2008) 40:131–141

Mukhtar , 2013

Peningkatan Kemampuan Abstraksi Dan Generalisasi Matematis Siswa Sekolah Menengah Pertama Melalui Pembelajaran Dengan Pendekatan *Metaphorical Thinking*
Universitas Pendidikan Indonesia | repository.upi.edu

- Rosita, I. (2007). *Strategi Heuristik Untuk Meningkatkan Kemampuan Generalisasi Matematis Siswa kelas X SMA*. Tesis pada SPS. Bandung: Tidak dipublikasikan.
- Ruseffendi, E. T. (1988). *Pengantar Kepada Membantu Guru Mengembangkan Kompetensinya Dalam Pengajaran Untuk Meningkatkan CBSA*. Bandung: Tarsito.
- R. Zazkis et al. (2008). *The role of examples in forming and refuting generalizations*. ZDM Mathematics Education (2008) 40:131–141
- Seitz, J.: 2001, *The Biological And Bodily Basis Of Metaphor*, <http://philosophy.uoregon.edu/metaphor/neurophl.htm>
- Sfard, A.: 1994, *Reification As The Birth Of Metaphor*, For the Learning of Mathematics 141, 44-54.
- Sfard, A.: 1997, Commentary: On metaphorical roots of conceptual growth, in L. English (ed.), *Mathematical reasoning: Analogies, metaphors, and images*, Lawrence Erlbaum Associates, London, pp. 339-371.
- Sriraman, B. (2004). *Reflective Abstraction, Uniframes and the Formulation of Generalizations*. Journal of Mathematical Behavior, 23, 205–222.
- Stacey, K. (1989). *Finding And Using Patterns In Linear Generalizing Problems*. Educational Studies in Mathematics, 20, 147–164.
- Stacey, K., & Mac Gregor, M. (2001). *Curriculum Reform And Approaches To Algebra*. In R. Sutherland, T. Rojano, A. Bell, & R. Lins (Eds.), *Perspectives on school algebra* (pp. 141–154). Dordrecht, Netherlands: Kluwer.
- Sugiyono. (2009). *Statistik Untuk Penelitian*. Bandung: CV. Alfabeta.
- Suherman, E. (2003). *Evaluasi Pembelajaran Matematika*. Bandung: JICA
- Sujono. (1998). *Pengajaran Matematika untuk Sekolah Menengah*. Jakarta: Depdikbud. P2LPTK.
- Sumarmo, U. (1987). *Kemampuan Pemahaman dan Penalaran Matematika siswa SMA Dikaitkan Dengan Kemampuan Penalaran Logik Siswa dan Beberapa Unsur Proses Belajar Mengajar*. Disertasi PPS IKIP Bandung: Tidak diterbitkan.

Mukhtar , 2013

- _____. “Pembelajaran Matematika untuk Mendukung Pelaksanaan Kurikulum Tahun 2002 Sekolah Menengah”. Makalah pada Seminar Pendidikan Matematika di FMIPA Universitas Negeri Gorontalo, Gorontalo.
- Svanevik, Alexander K. (2010). *“The role of metaphor and embodiment in the development of mathematical concepts: A computational approach”* Master of Science Artificial Intelligence School of Informatics University of Edinburgh
- Tahmir, S. (2008). *“Model Pembelajaran RESIK Sebagai Strategi Mengubah Paradigma Pembelajaran Matematika di SMP yang Teacher Oriented Menjadi Student Oriented*. Laporan Penelitian Hibah Bersaing. Dikti (Online) Tersedia :[http://www.puslitjaknov.org/data/file/2010/makalah_poster_session_pdf/Suradi_Model Pembelajaran Resik sebagai Strategi.pdf](http://www.puslitjaknov.org/data/file/2010/makalah_poster_session_pdf/Suradi_Model_Pembelajaran_Resik_sebagai_Strategi.pdf) (1 Juli 2012).
- Trisnandi, A., (2006). *Meningkatkan Kemampuan Pemahaman Dan Generalisasi Matematika Siswa Sekolah Menengah Pertama Melalui Pembelajaran Penemuan Terbimbing Dalam Kelompok*. Tesis Pada SPS UPI Bandung: Tidak diterbitkan.
- Yuni, Y. (2010). *Pengaruh Pembelajaran Penemuan Terbimbing Terhadap Kemampuan Generalisasi Matematika Siswa Sekolah Menengah Pertama*. Tesis SPS UPI Bandung: Tidak diterbitkan.
- Yuliani, Anik (2010). *Meningkatkan kemampuan Analogi dan Generalisasi Matematis Siswa SMP dengan Model Pembelajaran Inkuiri Terbimbing*. Tesis SPS UPI Bandung: Tidak diterbitkan.
- Widdiharto, R. (2004). *Model-model Pembelajaran Matematika SMP*. Yogyakarta: PPPG Matematika.
- Wahyudin. (2008). *Pembelajaran dan Model-model Pembelajaran*. Diklat Perkuliahan UPI Bandung : Belum dipublikasikan.
- Zazkis, Rina & Liljedahl, Peter (2002). *Generalization Of Patterns: The Tension Between algebraic Thinking And Algebraic Notation*.

Mukhtar , 2013