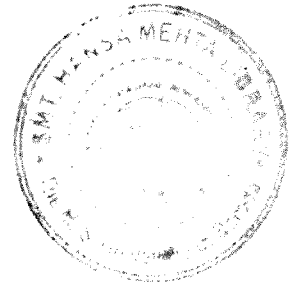


REFERENCES



REFERENCES

- Alpert, Bracha., & Bechar, Shomit. (2008). School organizational efforts in search for alternatives to ability grouping. *Teaching and Teacher Education*, 24, 1599-1612.
- Andrews, Sherry et.al. (1998). Problems Students Encounter during Math Instruction in Mixed-Ability Classrooms. In *ERIC Reproductive Service No. ED436355*.
- Askew, M. & Bliss, J. (1996). Effective teaching and learning: Scaffolding revisited. *Oxford Review of education*, 22 (1), 37-61.
- Ayishabi, T.C. (1988). *A Comparative Study of Certain Cognitive Abilities of Disadvantaged and Advantaged Students of Standard VIII*. Un Published Doctoral Thesis. Department of Education, Calicut University Kerala.
- Bednar, Janet et.al. (2002). Improving Student Motivation and Achievement in Mathematics through Teaching to the Multiple Intelligences. In *ERIC Reproductive Service No. ED466408*.
- Bhaskaran, K. (1991). Achievement Motivation, Attitude towards Problem Solving and achievement in mathematics of Standard X Students in Devekottai Educational District. In J. P. Sharma (Ed). *Fifth Survey of Educational Research*. New Delhi: NCERT.
- Bielsker, Staci et. al. (2001). Effects of Direct Teaching Using Creative Memorization Strategies To Improve Math Achievement.. In *ERIC Reproductive Service No. ED460855*.
- Birch, Jack W. & Mauch, James E. (1993). *Guide to the Successful Thesis and Dissertation*. Pennsylvania: School of Library and Information Science, University of Pittsburg.

- Bloom, B. S. (ed.) (1956) *Taxonomy of Educational Objectives, the classification of educational goals – Handbook I: Cognitive Domain* New York: McKay.
- Blume, Joseph et.al. (2001). Integrating Math and Science with Technology. *In ERIC Reproductive Service No. ED454088.*
- Boaler, J., William, D., & Brown, M. (2000). Students' experiences of ability grouping - disaffection, polarization and the construction of failure. *British Educational Research Journal*, 26, 631-648.
- Bodrova, E. & Leong, D. (1998). Scaffolding emergent writing in the zone of proximal development. *Literacy Teaching and Learning*, 3(2), 1-18.
- Borg, M. O., & Stranahan, H. A. (2002). Personality type and student performance in upper level economics courses: The importance of race and gender. *Journal of Economic Education*, 33(1), 3-14.
- Brahmer, Kelly & Harmatys, Jennifer. (2009). Increasing Student Effort in Complex Problem Solving through Cooperative Learning and Self-Recording Techniques. *In ERIC Reproductive Service No. ED504865.*
- Bryant-Jones, Marian. (2003). Increasing Math Achievement through Use of Music. *In ERIC Reproductive Service No. ED478919.*
- Butkowski, Jean et.al. (1994). Improving Student Higher-Order Thinking Skills in Mathematics. *In ERIC Reproductive Service No. ED383526.*
-

- Chard, D. J., Dickson, S. V., & Simmons, D. C. (1993). *An integrated reading/writing curriculum: A focus on scaffolding*. LD Forum, 18(4), 12-16.
- Chitkara, M. (1985). *To Study the Effectiveness of Different Strategies of Teaching on Achievement in Mathematics in Relation to Intelligence, Sex and Personality*, Unpublished Doctoral Thesis, University of Punjab.
- D'Ambrosio, U. (2001). What is ethno mathematics and how can it help children in schools? *Teaching Children Mathematics*, 7(6), 308-310.
- Davis, G.A., & Rimm, S.B. (1994). *Education of the Gifted and Talented* (3rd Ed.). Needham Heights, MA: Allyn and Bacon.
- Dhall, G. D. et. al. (2000). Effect of Using Remedial Materials in Mathematics on Achievement of Slow Learners. In J. P. Sharma (Ed). *Fifth Survey of Educational Research*. New Delhi: NCERT.
- Di Fatta, Jenna; Garcia, Sarah & Gorman, Stephanie. (2009). Increasing Student Learning in Mathematics with the Use of Collaborative Teaching Strategies. In *ERIC Reproductive Service No. ED504828*.
- Duckworth, E. (1987). *'The Having of Wonderful Ideas' and Other Essays on Teaching and Learning*. New York: Teachers College Press.
- Elicker, J. (1995). A knitting tale: Reflections on scaffolding. *Childhood Education*, 72, 29-32.
- Ellis, Daniel K. (2007). Improving Mathematics Skills Using Differentiated Instruction with Primary and High School Students. In *ERIC Reproductive Service No. ED499581*.
-

- Ellis, E. S., & Larkin, M. J. (1998). Strategic instruction for adolescents with learning disabilities. In B. Y. L. Wong (Ed.), *Learning about Learning Disabilities* (2nd ed., pp. 585-656). San Diego, CA: Academic Press.
- Flanders, N.A. (1970) *Analyzing Teaching Behavior*. (Addison Wesley)
- Gagnon, George W and Collay, Michelle. (2006). *Constructivist Learning Design: Key Questions for Teaching to Standards*. New Delhi: Sage publications.
- Gamoran, A. (1984). *Teaching, Grouping, and Learning: A Study of the Consequences of Educational Stratification*. Published Doctoral Thesis, Department of Education, University of Chicago, Chicago, Illinois.
- Gamoran, A. (1986). "Instructional and institutional effects of ability grouping. *Sociology of Education*, 59, 185-198.
- Gentry, M., Rizza, M. G., & Owen, S. V. (2002). Examining perceptions of challenge and choice in classrooms: The relationship between teachers and their students and comparisons between gifted students and other students . *Gifted Student Quarterly* , 46, 145-155.
- George, Jiby. (2002). *Preparation and Listing of Models for Teaching Geometry at Secondary Level*. Unpublished doctoral thesis, University of Kerala, Thiruvananthapuram.
- Gottfried, A.E., & Gottfried, A.W. (1996). A longitudinal study of academic intrinsic motivation in intellectually developed children: Childhood through early adolescence. *Gifted Child Quarterly*, 40, 179-183.
-

- Gourikuttiyamma, J. (1993). A Study on Certain Ability Correlates of Secondary School Mathematics Achievement Measures using Bloom's Taxonomy – Cognitive Domain. In J. P. Sharma (Ed). *Fifth Survey of Educational Research*. New Delhi: NCERT.
- Greenaway, E. (1999). *Lower secondary education: An international comparison*. Retrieved from <http://www.inca.org.uk/> on September 3, 2008.
- Greenes, C. (1981). Identifying the gifted student in mathematics. *Arithmetic Teacher*, 28, 14-18.
- Gregory, Gayle H. (2003). *Differentiated Instructional Strategies*. California: Corwin Press, Inc.
- Hafner. (2004). *Effectiveness of A Computer Software Program on Eighth Grade Mathematics Students*. Retrieved from <http://www.tech2.nytimes.com/mem/techonology/> on December 8, 2008.
- Hanson, Joyce. (2002). Improving Student Learning in Mathematics and Science through the Integration of Visual Art. In *ERIC Reproductive Service No. ED465534*.
- Howard-Hamilton, M., & Franks, B.A. (1995). Gifted adolescents: Psychological behaviours, values, and developmental implications. *Roeper Review*, 17, 186-191.
- Hunter, M. (1977). A Tri-dimensional Model to Individualization. *Educational Leadership*, 35(5), 351-355.
- Hunter, M. (1982). *Mastery Teaching*. El Segundo, CA: TIP Publications.
-

- Ivory, Tontaleya S. (2007). Improving Mathematics Achievement of Exceptional Learners through Differentiated and Peer-Mediated Instruction. In *ERIC Reproductive Service No.* ED498376.
- Johnson, J.R. (1999). The forum on early childhood science, mathematics, and technology education. In American Association for the Advancement of Science (AAAS). *Dialogue on Early Childhood Science, Mathematics, and Technology Education*. Washington, DC: AAAS, pp. 14-25.
- Joseph, John. (2006). A Comparative Study of certain Non-Cognitive factors associated with High, Average and Low Creative Students in Secondary Schools of Kerala. Unpublished Doctoral Thesis, University of Kerala, Thiruvananthapuram
- Ireson, Judith. & Hallam, Susan. (2008). Academic self-concepts in adolescence: Relations with achievement and ability grouping in schools. *Learning and Instruction*, 36, 720-733.
- Kang, Changhui. (2007). Classroom peer effects and academic achievement: Quasi-randomization evidence from South Korea. *Journal of Urban Economics*, 61, 458-495.
- Karanam, Pushpanadham. (1996). *An Investigation in to the Pupils' Understanding of Basic Arithmetic Concepts*. Unpublished thesis of Master of Philosophy in Education, Maharaja Sayajirao University of Baroda, Vadodara.
- Kathleen, Hogan. & Michael Pressley. (1997). *Scaffolding Student Learning: Instructional Approaches & Issues*. Cambridge, Mass.: Brookline Books.
- Kelly, T. (2005). *Project demonstrating excellence: A study of the teaching and learning of mathematics through multiple*
-

- intelligences and differentiated instruction with selected third grade teachers.* (Doctoral dissertation: Union Institute and University, 2004). Ann Arbor, MI: ProQuest Information and Learning Company. (UMI No. AAT 3162717).
- Klebosits, Pia & Perrone, Beth. (1998). Increasing Student Academic Achievement through the Use of Single and Mixed Gender Cooperative Grouping Patterns. *In ERIC Reproductive Service No. ED436358.*
- Kondor, Carrie Ann Hyde. (2007). One Size May Not Fit All, But the Right Teaching Strategies Might: The Effects of Differentiated Instruction on the Motivation of Talented and Gifted Students. *In ERIC Reproductive Service No. ED497701.*
- Kulik, C.-L. (1985). *Effects of Inter-Class Ability Grouping on Achievement and Self-Esteem.* Paper presented at the annual convention of the American Psychological Association (93rd), Los Angeles, California.
- Kulik, James A., & Kulik, Chen-Lin C. (1992). Meta-analytic findings on grouping programs. *Gifted Children Quarterly*, 36, 73-77.
- Lea-Wood, S.S. & Clunies-Ross, G. (1995). Self-esteem of gifted adolescent girls in Australian Schools. *Roeper Review*, 17, 195-197.
- Lehman, E., & Erdwins, C. (1981). The social and emotional adjustment of young, intellectually gifted children. *Gifted Child Quarterly*, 25, 134-137.
-

- Loveless, T. (1998). *The tracking and ability grouping debate*. Thomas BT Fordham Foundation. Retrieved from <http://www.edexcellence.net> on September 3, 2008
- Meister, C. & Rosenshine, B. (1992). The use of scaffolds for teaching higher-level cognitive strategies. *Educational Leadership*, 49(7), 26-33.
- Millard, Elizabeth S. et. al. (2002). Improving Student Achievement through Inclusion of Problem Solving in the Math Curriculum. In *ERIC Reproductive Service No. ED469078*.
- Nail, J.M., & Evans, J.G. (1997). The emotional adjustment of gifted adolescents: A view of global functioning. *Roeper Review*, 20, 18-21.
- National Council of Teachers of Mathematics. (2000). *Principles and Standards for School Mathematics*. Reston, VA: Author.
- National Curriculum Framework for School Education (NCF). 2005. New Delhi: NCERT.
- Ngailiankin, C. (1991). A Study of Selected Variables Associated with Achievement in Mathematics. In J. P. Sharma (Ed). *Fifth Survey of Educational Research*. New Delhi: NCERT.
- Neal, Kimberly L. (2004). Improving High School Mathematics Instruction: Using Constructivist Pedagogy. In *ERIC Reproductive Service No. ED490511*.
- Oram, G.D., Dewey, D.G., & Rutemiller, L.A. (1995). Relations between academic aptitude and psychosocial adjustment in gifted program students. *Gifted Child Quarterly*, 39, 236-244.
-

- Palincsar, A. S. (1998). Keeping the metaphor of scaffolding fresh: A response to C. Addison Stone's 'The metaphor of scaffolding'. *Journal of Learning Disabilities*, 31(4), 370-373.
- Panchalingappa, S. N. (1995). An Investigation in to the Causes of Underachievement in Secondary Schools Mathematics. In J. P. Sharma (Ed). *Fifth Survey of Educational Research*. New Delhi: NCERT.
- Patel, Rachana. M. (2009). *Diagnosis and Remediation of Learning Difficulties in Geometry of Standard VII Students*. Unpublished Doctoral thesis, Maharaja Sayajirao University of Baroda, Vadodara.
- Petrello, Nora. (2000). Can Ability Grouping Help Educators Meet Higher Educational Standards? In *ERIC Reproductive Service No. ED442743*.
- Phares, Barbara Georgeson. (1997). A Study of the Effectiveness of Ability Grouping on the Academic Achievement of Middle School Students. In *ERIC Reproductive Service No. ED411993*.
- Piechowski, M.M. (1991). Emotional development and emotional giftedness. In N. Colangelo & G.A. Davis (Eds.), *Handbook of Gifted Education* (pp. 285-306). Needham Heights, MA: Allyn and Bacon.
- Portal, Jamie & Sampson, Lisa. (2001). Improving High School Students' Mathematics Achievement through the Use of Motivational Strategies. In *ERIC Reproductive Service No. ED460854*.
- Preuss, Michael D. (2008). Personal Traits and Experiential Characteristics of Developmental Mathematics Faculty: Impact
-

- on Student Success. In *ERIC Reproductive Service No. ED504695*.
- Pyryt, Michel. C.; Sandals, Lauren H. and Begoray, John. (1998). Learning Style Preferences of Gifted, Average- Ability, and Special Needs Students: A Multivariate Perspective. In *ERIC Reproductive Service No. EJ576158*.
- Rajyaguru, M. S. (1991). A Comparative Study of Over and Under achievers in Mathematics. In *J. P. Sharma (Ed). Fifth Survey of Educational Research*. New Delhi: NCERT.
- Ramirez, Maria Jose. (2004). Understanding the Low Mathematics Achievement of Chilean Students: A Cross-National Analysis Using TIMSS Data. In *ERIC Reproductive Service No. ED491679*.
- Rangappa, K. T. (1992). Effect of Self Concept on Achievement in Mathematics. *Indian Educational Abstracts*, 3 (2).
- Roeper, A. (1992). Characteristics of gifted children and how parents and teachers can cope with them. *Roeper Review*, 11, 31-32.
- Sasidharan, T. (1992). *Learning Intellectual Skill as an Educational Outcome in relation to Student Entry Characteristics and Quality of Instruction*. Unpublished Doctoral thesis, Maharaja Sayajirao University of Baroda, Vadodara.
- Schleyer, Esther & Zeidner, Moshe. (1999). Evaluating the Effects of Full-Time vs. Part-Time Educational Programs for the Gifted: Affective Outcomes and Policy Considerations. In *ERIC Reproductive Service No. EJ602685*.
-

- Schmuck, R.A., & Schmuck, P.A. (1988). *Group Process in the Class Room*. Dubuque, IA: Brown.
- Shimahara, Erika. (1998). Homogeneous-Ability Grouping: Fourth-Grade Teachers' Rationale and Students' Perceptions. In *ERIC Reproductive Service No. ED424313*.
- Singh, R. D. (1992). Effectiveness of Teaching Mathematics through Computer Assisted Instruction and Conventional Method of Instruction on Cognitive and Non Cognitive Variables. *Indian Educational Review*. Vol. 26 (4).
- Slavin, R.E. (1990a). Ability grouping in the middle grades: achievement effects and alternatives. *The Elementary School Journal*, 93, 536-552.
- Slavin, R.E. (1990b). Achievement effects of ability grouping in secondary schools: a best-evidence synthesis. *Review of Educational Research*, 60, 471-499.
- Solomon, Yvette. (2007). Experiencing mathematics classes: Ability grouping, gender and the selective development of the participative identities. *International Journal of Educational Research*, 46, 8-19.
- Sumangala, V. (1995). Some Psychological Variables Discriminating between High and Low Achievers in Mathematics. In J. P. Sharma (Ed). *Fifth Survey of Educational Research*. New Delhi: NCERT.
- Terman, L. (1925). Mental and physical traits of a thousand gifted children. *Genetic Studies of Genius*, Vol. IV. Stanford, CA: Stanford University Press.
-

- Tomlinson, C. (1998). *How to Differentiate Instruction in Mixed-ability Classroom*. Alexandria, VA: Association for Supervision and Curriculum Development.
- Tucker, B., Singleton, A., & Weaver, T. (2002). *Teaching mathematics to all children*. Upper Saddle River, NJ: Pearson Education.
- Varghese, Saju. (2005). *Effect of Certain Instructional Methodologies on Mathematics Achievement of Secondary School Students in Different Intelligence Levels*. Unpublished Master's thesis, Mahatma Gandhi University, Kottayam.
- Vaughn, S. (in press). *University of Miami*.
- Wiggins, Jerry S. (1995). *The Five-Factor Model of Personality: Theoretical Perspectives*. New York: The Guilford Press.
- William, Michele. (2001). Exploring the relationship between Computer based learning, Learning styles and Cognitive styles. In *Dissertation Abstracts International*. USA: Pro/Quest Information and Learning. 60, 8-A.
- Williams, V. W. (1998). Answers to Questions about Math Anxiety. *School Science and Mathematics*, 88, 95-104.
- Winebrenner, S. (1992). *Teaching Gifted Kids in the Regular Classroom*. Minneapolis, MN: Free Spirit Publishing, Inc.
- Yack, Dennis R. & Shaw, Eugene R. (2007). The Effects of Teacher Instructional Efficacy on Mathematical Skill Acquisition: The Students Viewpoint. In *ERIC Reproductive Service No. ED498364*.
-