

## BIBLIOGRAPHY

- Aggarwal, J.C. (1999). *Landmarks in the History of Modern Indian Education*. Vikas Publishing House Pvt. Ltd., New Delhi.
- Ahmed, S.M. (1991). The Effects of Inquiry Instructions in a Geo Science Course upon Pre-service Elementary Attitudes Towards Science and Acquisition of Integrated Process Skills. Ph.D. (Ed.) in *Dissertation Abstract International*. Vol.42.No.4. p.1575a.
- Anderson, L.W. & Burns, R.B. (1989). *Research in Classrooms*. Pergamon press, oxford.
- Barhara, M.S. (1989). The Effect of Testing on Science Process Skills Achievement. *Journal of Research on Science teaching*, Vol. 26, No. 8, pp. 659-654.
- Begur, R. (2001). *Development of an In-service Training Programme for Navodaya Vidyalaya Teachers in Meeting Students Emotional Needs*. Un published Ph.D. Thesis, CASE, M.S. University of Baroda, Baroda.
- Bhatt, P. (1983). *Science Process Skills in Teaching and Learning*. Common Wealth Publishers, New Delhi.
- Biddle, B.J. & Dunkin.M. J. (1987). Effects of Teaching (Ed.) in M.J.Dunkin The *International Encyclopedia of Teacher & Teacher Education*. Pergamom Press, New York.
- Black, P. J & Lucas, A.M. (1993). *Children's Informal Ideas in Science*. Routledge, London.
- Briscoe, C. & Joseph, P. (1997). Teacher Collaboration Across and within Schools: Supporting individual change in elementary science Teaching. *Science Education*. Vol.81, pp. 51-65.
- Brook, A Driver, R. & Johnson, K. (1989). Learning Process in Science: a Classroom Perspective (Ed.) in J wellington. *Skills and Process in Science Education A Critical Analysis*. Routledge, London.
- Burules, N.C. & Linn, M.C. (1991). Science Education and Philosophy of Science: Congruence or Contradictions? *International Journal of Science Education*, Vol 13, No.3, pp.227-241
- Burstein. L. (1987). Units of Analysis (Ed.) in M.J.Dunkin, *The International Encyclopedia of Teaching and Teacher Education* Pergamon Press, New York
- Carr. M (1995). The Constructivist Paradigm and Some Implications for Science Content and Pedagogy. (Ed.) in J. Fenshaw.et.al. *The Content of Science, a Constructivist Approach to Teaching and Learning* The Falwer Press, New York.

- Chauhan, A.S. (1991). *Advance Educational Psychology*. Vikas Publishing House, New Delhi.
- Christiane, A. (1999). Desire to Inquire: Children Experience Science as Adventure, Ph.D. thesis British Columbia, in *Dissertation Abstract International*, V. 59, No 12, pp. 4363A.
- Cresswell, J.W. & Miller, D.L. (2000). Determining Validity in Qualitative Inquiry. *Theory into Practice*. Vol.39.No.3, pp.124-130
- Dawson,C.C. (1999). The Effect of Explicit Instruction in Science Process Skills on Conceptual Change. The Case of Photosynthesis Ph.D. thesis, University of Northern Colorado in [www. Umi.com/citation & abstracts](http://www.umi.com/citation&abstracts) No. AAT 9939758.
- Delors, J. (1996). *Learning Treasure within Report to UNESCO of the International Commission of Education for the Twenty First Century*. UNESCO, France.
- Denzin, N.K. (1997) Triangulation in Educational Research (Ed.) in. P.Keeves, *Educational Research Methodology and Measurement an International Handbook*. Pergamon Press, U.K.
- Department of Education, Ministry of Human Resource and Development, *Report of Education Commission (1964-66)*. Government of India, New Delhi.
- Department of Education, Ministry of Human Resource and Development, *National Policy on Education. 1986*. Government of India. New Delhi.
- Department of Education, Ministry of Human Resource and Development, *National Policy on Education. Programme of Action, 1986*. Government of India. New Delhi.
- Department of Education, Ministry of Human Resource and Development, *National Policy on Education. Programme of Action, 1992*. Government of India. New Delhi.
- Disimoni. K.C. (2002). Using Writing as a Vehicle to Promote and Develop Scientific Concepts and Process Skills in Fourth Grade Students, Ph.D. thesis, Fordham (Ed.) in University in [www. umi.com/citation & abstracts](http://www.umi.com/citation&abstracts), No. AAT 3040393.
- Driver,R (1988). Restructuring the Science Curriculum: Some Implications of Studies on Learning for Curriculum Development (Ed.) in L.David, *Innovation in Science and Technology Education. Vol II* UNESCO, Paris.
- Eraut, M A (1990). Instructional Development (Ed.) in M.Eraut *The International Encyclopedia of Educational Technology*. Pergamon Press, New York.
- Erlandson. D A. et.al (1993). *Doing Naturalistic Inquiry- A Guide to Methods*. Sage Publications, New York.

- Fairbrother, B. (1989). Problems in Assessment of Scientific Skills. (Ed.) in J. Weelington, *Skills and Process in Science Education. A critical Analysis*. Routledge, New York.
- Finely, N.F. (1983). Science Processes *Journal of Research in Science Teaching*. Vol.20, No.1, pp 47-54.
- Gangne, R.M. (1969). Instructional Programs. (Ed.) in H.M.Marx & E.M. Bunch, *Fundamentals and Applications of Learning*. Macmillan Publications, New York.
- Gail, P, (2000). Experience and Factors Influencing a Sample of Teachers in New York State Public Elementary and Middle Schools to Focus on Environmental Education in their Teaching. *Ph.D. Thesis (Ed.) in Dissertation Abstract International*, Vol. 61, No.1, p. 128A.
- German, J.P. (1994). Testing a Model of Science Process Skills Acquisition. *Journal of Research in Science Teaching*. Vol.40, No.7, pp. 749-783.
- German, P.J. Aram, R. & Burke, G. (1996) Identifying Patterns and Relationships Among the Responses of Seventh Grade Students to the Science Process Skills of Designing Experiments. *Journal of Research in Science Teaching*. Vol. 33, No.1, pp. 79-99.
- Glatthorn.A.A. (1989). *Writing the Winning Dissertation a Step-by-step Guide*. Corwin Press (India) Ltd., Hyderabad.
- Gopalakirshnan, S. (1992). Impact of Environmental Education on Primary School Children. Ph.D. thesis. (Ed.) in *V Survey of Educational Research (1988-92)*, NCERT, New Delhi.
- Gough, J. (1996). *Training Essentials, Developing Learning Materials*. University Press (India), Hyderabad.
- Government of Karnataka, (1996). *Parisara Adyana Vignyana Enu, Eke Hege ?* Murane Tharagathi, Directorate of Textbook, Bangalore.
- Government of Karnataka, (1996). *Parisara Adyana Nalkane Thragathi*, Directorate of Textbook, Bangalore.
- Graue, M. & Walsh, D.J. (1998). *Studying Children in Context: Theories, Methods and Ethics*. Sage Publications, London.
- Gray, B.V. (1999). Science Education in the Developing world: Issues and Considerations. *Journal of Research in Science Teaching*. Vol.36. No.3. pp. 261-267
- Hamilton, D (1975) Handling Innovation in the Classroom: Two Scottish Examples. (Ed ) in W.A Ried & D F. Walker. *Case Studies in Curriculum Change Great Britain and United States* Routledge and Kegan Paul. Boston.

- Harlen, W. (1985). Science Education: Primary School Programmes (Ed.) in T. Husen, et.al. *The International Encyclopedia of Education. Volume (8), Research and Studies*. Pergamon Press, New York.
- Harlen, W. (1986) Recent Developments in Primary and Lower Secondary School Science. (Ed.) in L.David. *Innovation in Science and Technology*, Vol.1. UNESCO, Paris.
- Harlan. & Elstgeest,J. (1993). *UNESCO Source Book for Science Teaching in the Primary School*. NBT, New Delhi.
- Hewson, M.G.& Hewson, P.W. (1983). Effect of Students Prior Knowledge and Conceptual Change Strategies on Science Learning. *Journal of Research in Science Teaching*. Vol.20, No.8, pp.731-743.
- Hollingsworth, S. (1997). Teachers as Researchers (Ed.) in J.P.Keeves. *Educational Research Methodology and Measurement, An International Hand book*. Pergamon, U.K.
- Hurlock, B.E. (1997). *Child development*. Tata Mc.Graw-Hill, New Delhi.
- Howe, C.A. (1996). Development of Science Concepts within a Vygotskian Framework. *Science Education*, Vol.80. pp.35-51.
- Johnson & Johnson. (1999). Making Cooperative Learning work. Theory into Practice. Vol.38. No.2. pp. 67-73.
- Jorgensen, D.L (1989). *Participant Observation. A Methodology for Human Studies*. Sage Publications, California.
- Joyce, B. Weil, M & Showers, B. (1992). *Models of Teaching*. Prentice-Hall of India Pvt. Ltd. New Delhi
- Kamen, M. (1996). A Teacher's Implementation of Authentic Assessment in an Elementary Science Classroom. *Journal of Research in Science Teaching*. Vol.33, No.8. pp. 859-877.
- Kapp ali, S V. (1998). Representation of Science: A critique of Science Education. *Perspectives in Education*. Vol.13, No 3, pp. 341-354.
- Kasinath, H M. (2000) Effectiveness of Inquiry Method of Teaching Science in fostering science process skills. *Perspectives in Education*, Vol. 16, No. 3.
- Kempa, R F.& Ayob, A. (1991). Learning Interactions In-group Work in Science. *International Journal of Science Education*. Vol.13, No. 3, pp. 341-354.
- Kirkham, J. (1989). Balance Science. Equilibrium between Context, Process and Content. (Ed ) in J. Wellington. *Skills and Process in Science Education. A Critical Analysis*. Routledge London.

- Krystyniak, R A. (2001). The Effect of Participation in an Extended Inquiry Project on General Chemistry Student Laboratory Interactions, Confidence and Process Skills Ph.D. thesis, (Ed.) in *www. umi.com/citation & Abstracts* No. AAT 3006597.
- Lecompte, M.D. (2000). Analysing Qualitative Data. *Theory into Practice*, Vol.39, No.3, pp.146-154.
- Lobo, I. (1990). *Effect of Developing Science Process Skills Among Pre-service Secondary Teachers, on their Classroom Behavior*. Un published Ph.D. Thesis, University of Mysore, Mysore.
- Logan, M.L.& Logan, G.V. (1974). *Educating Young Children*, McGraw Hill, Pvt. Ltd., London.
- Manjrekar, N. (1999). *Learning One's Gender in the Primary School. A Study of Curriculum*. Unpublished Ph.D. thesis, CASE, The M.S. University of Baroda, Baroda.
- Manuel, N.V. (1986). Environmental Approaches to Education a Means of Enlivening Formal & Non Formal Education. (Ed.) in P.L.Mihotra & B.S.Prakehta, *School Education in India- Present status and Future needs*, NCERT, New Delhi.
- Margarett, K.T. (1999). *The Open Classroom. A Journey Through Education*. Orient Longmann, Hyderabad.
- Mcnay, M. (1993) Children's Skill in Making Predictions and Their Understanding of What Predicting Means: A Developmental Study. *Journal of Research in Science Teaching*, Vol. 30, No. 6, pp.561-877.
- Mcniff, J (1993). *Teaching as Learning. An Action Research Approach*. Routledge, London.
- Menon, S.B. (1986). *The Study of a System of Science Education in the Perspective of the Process of Scientific Inquiry*. unpublished Ph.D. thesis, CASE, The M.S. University of Baroda, Baroda.
- Meyar, M (1971). The AAAS Project- Science a Process Approach. (Ed.) in E.Victor & M Learner. *Readings in Science Education for the Elementary School*. MacMillan Company, New York.
- Michel, C et.al. (Ed.). (1978). *Mind in Society. The Development of Higher Psychological Process*. L.S.Vygotsky, Harvard University Press, Massachusetts.
- Millar (1989) What is Scientific Method and Can it be Taught? (Ed.) in J.Wellington. *Skills and Process in Science Education A Critical Analysis*. Routledge, London.

- NCERT. (1975) *Curriculum for the Ten Year School*, National Council of Educational Research and Training, New Delhi.
- NCERT. (1981) *Environmental Education at School Level. A Lead Paper presented at the International Conference on Environmental Education*, New Delhi. 16-20, 1981.
- NCERT. (1989) *National Curriculum for Elementary and Secondary Education: A Framework*, Revised Edition National Council of Educational Research and Training, New Delhi.
- NCERT (1991). Minimum Level of Learning at Primary Stage, *Report of the Committee setup by MHRD*, Dept. of Education, New Delhi.
- NCERT. (1995). *Environmental Education in the School Curriculum*, National Council of Educational Research & Training, New Delhi.
- NCERT. (2000). *National Curriculum Framework for School Education*. National Council of Educational Research & Training, New Delhi.
- NCERT. (2001). *Environmental Studies, Guidelines and Syllabi for the Primary Stage. I-V*. National Council of Educational Research & Training, New Delhi.
- Praharaj B (1991) *Environmental Knowledge, Environmental Attitude and Perception Regarding Environmental Education Among Pre-service & In-service Secondary School Teachers*. Unpublished Ph.D. thesis, CASE, The Maharaja Sayajirao University of Baroda. Baroda.
- Rajput, J.S. (1994), *Experience and Expectations in the Elementary Education*. Anamika Prakashan, New Delhi.
- Ramkumar, N. (2000). *A Primary School in a Sub-urban Context: A Case of Srirampura Village, Karnataka State*. Unpublished Ethnographic Project, NIEPA, and New Delhi.
- Rane, A. J. (1989). Evaluation of the Environmental Studies Approach of Parisar Asha in Municipal Schools in Greater Bombay, (Ed.) in *Fifth Survey of Educational Research* (1988-92), NCERT, and New Delhi-1997
- Roth. W M & Roychoudhary, A. (1993). The Development of Science Process Skills in Authentic Contexts. *Journal of Research in Science Teaching*, Vol.30, No 2, pp 127-152.
- Saxena, A B. (2000) A Critical Study of Text Books for Environmental Studies at the Primary Level, *Journal of Indian Education* V, XXV, No.4. Feb 2000.
- Saylor J G & Alexander, W M (1974). *Planning Curriculum for Schools*. Host, Rineheart and Winston, Inc, New York.

- Selley, N.J. (1989). Philosophies of Science and Their Relation to Scientific Process and Science Curriculum (Ed.) in J. Wellington, *Skills and Process in Science Education A critical analysis*. Routledge, London.
- Sharma, R.C. (1975). *Modern Science Teaching*. Dhanpat Rai and Sons, New Delhi.
- Sharma, R. (1994). *Effectiveness of An Instructional Programme in the Development of Science Process Skills Among Elementary School Children*. Unpublished Ph.D. thesis, University of Mysore, Mysore.
- Sharma, A. (1995). *Management of the Vocational Education and Training Programme in Fijian Secondary School*. An unpublished Doctoral Dissertation, University of Bristol, Bristol, U.K.
- Shahnawaj. (1990) Environmental Awareness and Environmental Attitude of Secondary and Higher Secondary Teachers and Students. (Ed.) in *V Survey of Educational Research (1988-92)* NCERT, New Delhi 1997.
- Shepherdson, D.P. (1996). Social Interactions and the Mediation of Science Learning in two Small Groups of First Graders. *Journal of Research in Science Teaching*. Vol.33.No.2. pp.159-178.
- Stake, R.E: (1994). Case Studies (Ed.) in K.N. Denzin & Y.S. Lincoln, *Handbook of Qualitative Research*, Sage Publications, California.
- Stahly, L.L. Krockover, G.H. & Shepherdson, D.P. (1999). Third Grade student's Ideas About the Lunar Phases. *Journal of Research In Science Teaching*. Vol.36. No.2.pp.159-177.
- Stenhouse, L. (1990). Case Study Methods. (Ed.) in W.J. Herbet & H.D. Geneva. *The International Encyclopedia of Educational Evaluation*. Pergamon Press, USA.
- Sturman, A. (1997). Case Study Methods. (Ed.) in J.P. Keeves, *Educational Research Methodology and Measurement an International Handbook*. Pergamon Press, U.K.
- Sundararajan, S. (1995). *Teaching Science in Middle School. A Resource Book*. Orient Longmann, Hyderabad
- Taba, H (1962) *Curriculum Development, Theory and Practice* Hartcourt, Brace and World, Inc, New York.
- Taylor, P & Mulhall, A. (1997). *Contextualising Teaching and Learning in Rural Primary Schools, Using Agricultural Experience*, AE&D, University of Reading. Reading.
- Thomar, A (1998) *An Intervention to Improve the Quality of Instruction in Environmental Science for Primary Level Children* Unpublished Ph.D. thesis, CASE. The M. S. University of Baroda. Baroda.

- Tice, C. J. (1999) The Integration of Science Process Skills in Elementary Science, Math's. and Language. A Case Study of the Effect Upon Student Achievement Ph.D. thesis, Syracuse University, (Ed.) in *Dissertation Abstract International*, Vol.60, No. 4, pp 1069A.
- Tyson, L.M. Venville, G.J. & Harisson A.G. (1997). A Multidimensional Framework for Interpretation Conceptual Change Events in the Classroom. *Science Education*. Vol.81.pp.387-404.
- Uharmacher, P.B. (1992). *Science Curriculum Handbook, a Practical Guide for K-12* Kraus International Publications, New York.
- Wellington, J. (1989). *Skills and Process in Science Education A Critical Analysis* Routledge, London.
- White, G. M. (1999) The Development of a Content Influenced Process Skills Instrument for General Biology. Ed.D. thesis, Delta State University (Ed.) in [www.umi.com/citation & abstracts](http://www.umi.com/citation&abstracts) No. AAT 9932942.
- Wolcott, H.F. (1990). *Writing up Qualitative Research. Qualitative Research Methods.series 20*. Sage Publications, California.
- Woolnough, B.E. (1989). Towards a Holistic View of Process in Science Education. (Ed.) in J.Wellington, *Skills and Process in Science Education. A Critical Analysis*. Routledge, London.
- Yashpal, (Ed.) (1993). *Learning without Burden*. Department of Education, M.H.R.D., New Delhi.
- Yin, R.K. (1994). *Case Study Research Design and Methods*. Sage Publications, New Delhi.
- Young, B.L. (1979). *Teaching Primary Science*. Longman Group, England.