DAFTAR PUSTAKA

Angelo, T. A. (Eds.) (1991). *Classroom Research: Early Lessons from Success.* San Francisco: Jossey-Bass Inc. Publishers.

Appleton, K. (1996). "Students' Responses during Discrepant Event Science Lessons". Makalah pada pertemuan tahunan National Association for Research in Science Teaching, 31 Maret - 3 April 1996, St. Louis.

Asmawi, Z. dan Nasution, N. (1994). *Penilaian Hasil Belajar.* Jakarta: Dirjen Dikti Depdikbud.

Bell, B. F.(1993). *Children's Science, Constructivism and Learning in Science.* Victoria: Deakin University.

Carin, A.A. & Sund, R.B. (1989). *Teaching Science Through Discovery.* Columbus: Merrill Publishing Company.

Cavendish, S. *et al.* (1990). *Observing Activities: Assessing Science in the Primary Classroom.* London: Paul Chapman Publishing Ltd.

Collea, F. P. *et al.* (1975). *Workshop on Physics Teaching and the Development of Reasoning.* New York: American Association of Physic Teachers.

Connor, J. V. (1990). "Naive Conceptions and the School Science Curriculum", dalam Rowe, M. B. (Eds.) (1990). *What Research Says to the Science Teacher: The Process of Knowing, 6,* 5-18. Washington: National Science Teachers Association.

Cosgrove, M. & Osborne, R. (1985). "Lesson Frameworks for Changing Children's Ideas", dalam Osborn, R. & Freyberg, P. (1985). *Learning in Science: The Implications of Children's Science.* Auckland: Hinemann.

Dagher, Z. R. (1994). "Does the Use Analogies Contribute to Conceptual Change?". *Journal of Science Teacher Education,* 78,(6),601-614.

Dahar, R. W. (1985). *Kesiapan Guru Mengajarkan Sains di Sekolah Dasar Ditinjau Dari Segi Pengembangan Keterampilan Proses Sains (Suatu Studi Iluminatif Tentang Proses Belajar Mengajar Sains di Kelas 4, 5 dan 6 Sekolah Dasar).* Disertasi Doktor FPS IKIP, IKIP Bandung: tidak diterbitkan.

_____.(1988). *"Konstruktivisme dalam Mengajar dan Belajar"*. Teks Pidato pada Pengukuhan Jabatan Guru Besar Tetap pada FPMIPA, IKIP Bandung: tidak diterbitkan.

_____.(1991). *Teori Teori Belajar*. Jakarta: Penerbit Erlangga.

Dahar, R. W. dkk.(1992). *Dampak Pertanyaan dan Teknik Bertanya Guru Selama Proses Belajar Mengajar Ilmu Pengetahuan Alam Pada Berpikir Siswa*. Laporan Penelitian, FPMIPA, IKIP Bandung: tidak diterbitkan.

Departemen Pendidikan dan Kebudayaan.(1994). *GBPP IPA SD Kurikulum Pendidikan Dasar 1994*. Jakarta: Depdikbud Republik Indonesia.

Diah H. dkk. (1994). Penjelasan Kurikulum SD 1994: Umum. Jakarta: Depdikbud.

Driver, R. (1989). *The Construction of Science Knowledge Doing Science: Images of Science Education*. New York: Falmer.

Driver, R. *et al.* (1991). "Children's Ideas and the Learning of Science", dalam Driver, R. *et al.* (eds.) (1991). *Children's Ideas in Science*. Philadelphia: Open University Press.

_____. (1991). "Some Features of Children's Ideas and their Implications for Teaching", dalam Driver, R. *et al.* (eds.) (1991). *Children's Ideas in Science*. Philadelphia: Open University Press.

Driver, R. & Leach, J. (1993). "A constructivist view of learning: Children's conceptions and nature of science", dalam *What Research Says to the Science Teacher, 7*, 103-112. Washington: National Science Teachers Association.

Dykstra, D. I. *et al.* (1992). "Studying Conceptual Change in Learning Physics". *Journal of Science Education, 76,* (6), 615-652.

Eddy M. Hidayat. (1996). "Pendidikan dan Pembelajaran Sains Yang Bagaimana Yang Cocok dan Berguna Untuk Siswa-Siswa Sekolah di Indonesia". *Majalah Pendidikan Ilmu Pengetahuan Alam: Khazanah Pengajaran IPA,1,(*2),20-22. Bandung: PPS IKIP Bandung

Elliot, J. (1991). *Action Research for Educational Change*. Milton Keynes: Open University Press.

FX. Soedarsono. (1996). *Pedoman Pelaksnaan Penelitian Tindakan Kelas (PTK) Bagian Kedua: Rencana, Desain dan Implementasi.* Yoyakarta: IKIP Yogyakarta.

Gilbert, J. *et al.* (1986). "Children's Science and It's Consequences for Teaching", dalam Brown, J. *et al.* (1986). *Exploring the Curriculum: Science in Schools.* Philadelphia: Open University.

Glasson, G. E. & Lalik, R. V. (1993). "Reinterpreting the learning cycle from constructivist social perspective : A qualitative study of teachers' beliefs and practices". *Journal of Research in Science Teaching,30,*(2),187-207.

Harlen, W. & Galton, M. (Eds.) (1990). *Observing Activities - Assessing Science in The Primary Classroom.* London: Paul Chapman Publishing Ltd.

Hewson, M. G. A'B. (1985). "The Role of Intellectual Environment in The Origin of Conceptions: an Exploratory Study", dalam West, L.H.T. & Pines, A. L. (1985). *Cognitive Structure and Conceptual Change.* Orlando, Florida : Academic Press, Inc.

Holt, B. G. (1991). *Science With Young Children.* Washington: National Association for Education of Young Children.

Hopkins, D. (1993). *A Teacher's Guide to Classroom Research.* 2nd ed. Buckingham-Philadelphia: Open University Press.

Horsley, S. L. *et al.* (1990). *Elementary School Science for the '90.* Alexandria, Virginia: Association for Supervision and Curriculum Development.

Kamii. (1978). "Teaching for Thinking and Creativity: A Piagetian Point of View", dalam 1980 Aets Year Book. (1980). *Science Education Information Report.* The Ohio State University.

Karplus, R. (1978). "Teaching for the development of reasoning", dalam 1980 Aets Yearbook. (1980). *Science Education Information Report.* The Ohio State University.

Kemmis, S. & Mc Taggart, R. (1992). *The Action Research Planner.* Rev.Ed. Victoria: Deakin University.

Krajcik, J. S. (1993). "Learning Science by Doing Science", dalam *What Research Says to the Science Teacher,7,* 53-57. Washington: National Science Teachers Association.

Noeng Muhadjir. (1996). *Pedoman Pelaksanaan Penelitian Tindakan Kelas (PTK) Bagian Keempat: Analisis dan Refleksi.* Yogyakarta: IKIP Yoyakarta.

Nuryani Y. Rustaman dan Ari Widodo. (1996). "Keterpaduan Kurikulum dan Pembelajaran dalam Menyiapkan Guru IPA Sekolah Dasar: 'Trend' dan Alternatif". *Majalah Pendidikan Ilmu Pengetahuan Alam: Khazanah Pengajaran IPA,1,(2),*26-34. Bandung: PPS IKIP Bandung.

Osborne, R. & Freyberg, P. (eds.) (1985). "Children's Science", dalam Osborn, R. & Freyberg, P. (1985). *Learning in Science: The Implications of Children's Science.* Auckland: Hinemann.

Osborne, R. & Wittrock, M. (1985). "The Generative Learning Model and Its Implications for Science Education", dalam Bell, B. F.(1993). *Children's Science, Constructivism and Learning in Science.* Victoria: Deakin University.

Poedjiadi, A. (1994). "Pendekatan Sains-Teknologi-Masyarakat dalam Pendidikan sebagai Upaya Meningkatkan Literasi Sains dan Teknologi". Makalah pada Seminar Nasional Hasil Penelitian Pendidikan MIPA III, Ujung Pandang.

Pollard, A. & Tann, S. (1992). *Reflective Teaching in the Primary School: A Hand Book for the Classroom.* London: Casell Education Limited.

Proyek P2T-IKIP Bandung. (1990). *Pedoman Penulisan Karya Ilmiah.* Bandung: IKIP Bandung.

Proyek Pengembangan Pendidikan Guru Sekolah Dasar.(1996). *Kerangka Acuan : Penelitian Tindakan Kelas (PTK) Tentang Efektivitas Pembelajaran Kelas di Sekolah Dasar.* Jakarta: Depdikbud.

Ramsey, J.(1993). "Developing conceptual storylines with the learning cycle". *Journal of Elementary Science Education,5,*(2),1-20.

_____.(1996). *Characteristics of Constructivistic Instruction.* Hand Out Perkuliahan untuk Program S2-IPA SD PPS, IKIP Bandung: tidak diterbitkan.

Renner, J.W., et al. (1988). "The Necessity of Each Phase of The Learning Cycle in Teaching High School Physics". *Journal of The National Association for Research in Science Teaching, ?,* 39-57.

Roth, W..M.(1993). "In the name of constructivism : Science education research and the construction of local knowledge". *Journal of Research in Science Teaching,30*,(7),799-803.

Roth, W.M. & Roychoudury, A.(1993). "The development of science process skills in authentic contexts". *Journal of Research in Science Teaching*,30,(2),127-152.

Rubin, R. L. & Norman, J. T. (1992). "Systematic Modeling versus The Learning Cycle: Comparative Effects on Integrated Process Skill Achievement". *Journal of The National Association for Research in Science Teaching, ?*, 715-727.

Rutherford, F.J. & Ahlgren, A. (1990). *Science for All Americans*. New York: Oxpord University Press.

Saifudin Azwar. (1996). *Tes Prestasi : Fungsi dan Pengembangan Pengukuran Prestasi Belajar* (Edisi II). Yogyakarta: Pustaka Pelajar Offset.

Saroso Purwadi. (1995). "Daur Belajar: Pengajaran Bidang Studi IPA". Makalah bahan pelatihan metodologi bidang studi Proyek Pengembangan Pendidikan Guru Sekolah Dasar, Jakarta.

Shepardson, D. P. *et al.* (1994). "The impact of a science demonstration on children's understanding of air pressure". *Journal of Research in Science Teaching,31*,(3),243-258.

Shepardson, D.P. & Moje, E.B. (1994). "The nature of fourth graders' understandings of electric circuits". *Journal of Science Education,78*,(5),489-514.

Shipstone, D. (1991). "Electricity in Simple Circuit", dalam Driver, R. et al. (1991). *Children's Ideas in Science*. Molton Keynes - Philadelphia: Open University Press.

Smith, E. L. *et al.* (1993). "Teaching Strategies Associated with Conceptual Change Learning in Science". *Journal of Research in Science Teaching,30*, (2),111-126.

Sriyono, dkk. (1992). *Teknik Belajar Mengajar dalam CBSA*. Jakarta: Penerbit Rineka Cipta.

Strike, K.A. & Posner, G. J. (1985). "A Conceptual Change View of Learning and Understanding", dalam West, L.H.T. & Pines, A. L. (1985). *Cogni-*

tive Structure and Conceptual Change. Orlando, Florida : Academic Press, Inc.

Sumarno. (1996). *Pedoman Pelaksanaan Penelitian Tindakan Kelas (PTK) Bagian Ketiga: Pemantauan dan Evaluasi*. Yogyakarta: IKIP Yogyakarta.

Suwarsih Madya. (1994). *Panduan Penelitian Tindakan*. Yogyakarta: IKIP Yogyakarta.

Suyanto. (1996). *Pedoman Pelaksanaan Penelitian Tindakan Kelas (PTK) Bagian Kesatu: Pengenalan Penelitian Tindakan Kelas*. Yogyakarta: IKIP Yogyakarta.

Tasker, R.(1992). "Effective teaching - what can a constructivist view of learning offer?". *The Australian Science Teachers Journal, 38*,(1),25-34.

Tasker, R. & Osborne, R. (1985). "Science Teaching and Science Learning", dalam Osborn, R. & Freyberg, P. (1985). *Learning in Science: The Implications of Children's Science*. Auckland: Hinemann.

Trowbridge, L.W. & Bybee, R.W.(1990). *Becoming a Secondary School Science Teacher*. Ohio: Merril Publishing Company.

Wheatley, G.H. (1991). "Constructivist perspectives on science and mathematics learning". *Journal Science Education, 75*, (1), 9-21.

Yager, R.E. (1991). "The Constructivist Learning Model: Towards real reform in science education". Makalah untuk The National Science Teachers Association. North Washington: 3140 Arlington.

_____.(eds.)(1993). "Science/Technology/Society: A new effort for providing appropriate science for all". *Journal NSTA: What Research Says to the Science Teacher - The Science, Technology, Society Movement, 7*, 3 - 5.

_____.(1996). "Science-Technology-Society: Providing Useful and Appropriate Science for All". Makalah pada Seminar Sains-Teknologi-Masyarakat, tanggal 10 Juni 1996, Bandung.

Yatim Riyanto. (1996). *Metodologi Penelitian Pendidikan: Suatu Tinjauan Dasar*. Surabaya: SIC