

REFERENCES

- Aikenhead, G.S. (1996). Science education: border crossing into the subculture of science. *Studies in Science Education*, **27**, 1-52.
- Aikenhead, G.S. & Jegede, O.J. (1999). Cross-cultural science education: a cognitive explanation of a cultural phenomenon. *Journal of Research in Science Teaching*, **36**(3), 269-287.
- Anderson, G. (1990). *Foundations of Educational Research*. London: Falmer Press.
- Anonymous (undated). Astronomy 108: study questions and sample exam questions. Retrieved 15 July 2004 from the World Wide Web: <http://www.phys.uri.edu/~chuck/ast108/samples/exam1/samples1.html>
- Anonymous (undated). Regents Prep: Earth science. Retrieved 15 July 2004 from the World Wide Web: <http://regentsprep.org/Regents/core/questions/questions.cfm?Course=ESCI&TopicCode=08>
- Anonymous (undated). Study Questions for Exam #1. Retrieved 15 July 2004 from the World Wide Web: http://jura.astro.utoledo.edu/~bjorkman/astr1010/exam1sg_f03.htm
- Aron, R.H., Francek, M.A., Nelson, B.D. & Bisard, W.J. (1994). Atmospheric misconceptions. *The Science Teacher*, **61**(1), 30-33.
- Ary, D., Jacobs, L.C. & Razavieh, A. (1972). *Introduction to Research in Education*. Iran: Shiraz.
- Atwood, R.K. & Atwood, V.A. (1996). Preservice elementary teachers' conceptions of the causes of seasons. *Journal of Research in Science Teaching*, **33**(5), 553-563.
- Ausubel, D. (1985). 'Learning as constructing meaning'. In Entwistle, N. (ed) *New directions in educational psychology 1: learning and teaching*. London: The Falmer Press.
- Ayerst, P., Dalton, D. & Khumalo, G. (2001). *Shuters Natural Sciences*. Pietermaritzburg: Shuter & Shooter.

- Bakas, C. & Mikropoulos, T.A. (2003). Design of virtual environments for the comprehension of planetary phenomena based on students' ideas. *International Journal of Science Education*, **25**(8), 949-967.
- Behr, A.L. (1973). *Methods and Techniques in Educational and Psychological Research*. Pretoria: Van Schaik.
- Bell, J. (1987). *Doing Your Own Research Project*. Milton Keynes: Open University Press
- Dove, J. (2002). Does the man in the Moon ever sleep? An analysis of student answers about simple astronomical events: a case study. *International Journal of Science Education*, **24**(8), 823-834.
- Fakudze, C. (2003). The African learner model. In Ogunniyi, M. & Rochford, K. (2003), School Of Science And Mathematics Education Gold Field Building, University of the Western Cape. *Seminar Series*, **4-6**, 132-134.
- Fleer, M. (1997). A cross-cultural study of rural Australian Aboriginal children's understanding of night and day. *Research in Science Education*, **27**(1), 101-116.
- Foddy, W. (1993). *Constructing questions for interviews and questionnaires: Theory and practice in social Research*. Cambridge: University Press.
- Frankel, J. & Wallen, N. (1990). *How to Design and Evaluate Research in Education*. New York: McGraw-Hill.
- Fraser, W. (1991). Basic considerations in the construction of classroom tests. In Dreckmeyer, M. & Fraser, W. *Classroom Testing In Biology and Physical Science*. Pretoria: Haum Tertiary.
- Jegede, O.J. (1995). Collateral learning and the eco-cultural paradigm in science and mathematics education in Africa. *Studies in Science Education*, **25**, 97-137.
- Lawrenz, F. & Gray, B. (1995). Investigation of worldview theory in a South African context. *Journal of Research in Science Teaching*, **32**(6), 555-568.
- Lemmer, M., Lemmer, T.N. & Smit, J.J. (2003). South African students' views of the universe. *International Journal of Science Education*, **25**(5), 563-582.
- McGuire, S. (undated). Find the reason for earth's seasons: an internet treasure hunt on earth's season. Retrieved 15 July 2004 from the World Wide Web: <http://www.kn.pacbell.com/wired/fil/pages/huntweathers.html>

- Mouly, G.J. (1970). *The Science of Educational Research*. New York, Van Nostrand Reinhold Company.
- National Department of Education (2001). The revised national curriculum statement. Pretoria: Government Press.
- Ogunniyi, M.B., Jegede, O.J., Ogawa, M., Yandila, C.D. & Oladele, F.K. (1995). Nature of worldview presuppositions among science teachers in Botswana, Indonesia, Japan, Nigeria, and the Philippines. *Journal of Research in Science Teaching*, **32**(8), 817-831.
- Opie, F.W.J. & Enderstein, G. (2000). *New Nation Science*. South Africa: Hodder & Stoughton.
- Oppenheim, A. (1966). *Questionnaire Design and Attitude Measurement*. London: Heinemann.
- Papillon, A.L. (1978). *Foundations of educational research*. DePaul University, University Press of America.
- Parker, J. & Heywood, D. (1998). The earth and beyond: developing primary teachers' understanding of basic astronomical events. *International Journal of Science Education*, **20**(5), 503-520.
- Piaget, J. (1964). Development and learning. In Ripple, R.E. & Rockcastle, N. (Eds). *Piaget rediscovered*. Ithaca: Cornell University Press, 7-19.
- Ramuel, J.F. (1964). *Introduction to Research Methods in Education*. New York: Harper & Row.
- Roald, I. & Mikalsen, O. (2001). Configuration and dynamics of the Earth-Sun-Moon system: an investigation into conceptions of deaf and hearing pupils. *International Journal of Science Education*, **23**(4), 423-440.
- Sanders, M. (1995). A useful format for questionnaires and tests used in educational research. Proceedings of the 3rd annual meeting of the South African Association for Research in Mathematics and Science Education, Cape Town: SAARMSE.
- Sax, G. (1968). *Empirical Foundations of Educational Research*. Englewood Cliffs, New Jersey: Prentice-Hall.

- Sharp, G.J. (1996). Children's astronomical beliefs: a preliminary study of year 6 children in southwest England. *International Journal of Science Education*, **18**(6), 685-712.
- Treagust, D.F. (1988). Development and use of diagnostic tests to evaluate students' misconceptions in science. *International Journal of Science Education*, **10**(2), 159-169.
- Trumper, R. (2000). University students' conceptions of basic astronomy concepts. *Physics Education*, **35**(1), 9-14.
- Trumper, R. (2001a). A cross-age study of junior high school students' conceptions of basic astronomical concepts. *International Journal of Science Education*, **23**(11), 1111-1123.
- Trumper, R. (2001b). A cross-age study of senior high school students' conceptions of basic astronomical concepts. *Research in Science and Technological Education*, **19**(1), 97-109.