Contents

Acknowledgements

Introduction  1.1
  Background  1.1
  Vision for Scientific Literacy  1.2
  Goals for Canadian Science Education  1.2
  Beliefs about Learning, Teaching, and Assessing Science  1.3

Manitoba Foundations for Scientific Literacy  2.1
  The Five Foundations  2.3
    A. Nature of Science and Technology  2.4
    B. Science, Technology, Society, and Environment (STSE)  2.7
    C. Scientific and Technological Skills and Attitudes  2.9
    D. Essential Science Knowledge  2.12
    E. Unifying Concepts  2.13
  Conceptual Organizer  2.15

Specific Learning Outcomes  3.1
  Organization into Clusters  3.3
  Guide to Reading the Specific Learning Outcomes  3.4
  Kindergarten Specific Learning Outcomes  3.8
  Grade 1 Specific Learning Outcomes  3.16
  Grade 2 Specific Learning Outcomes  3.26
  Grade 3 Specific Learning Outcomes  3.36
  Grade 4 Specific Learning Outcomes  3.46

Appendix  Appendix 1

References  References 1