

## Exploring Rocks and Minerals

<b>Manitoba</b>	
<b>Grade 4</b>	
<b>Cluster 4: Rocks, Minerals, and Erosion</b>	
<u>Specific Learning Outcomes:</u>	<p>4-4-01. Use appropriate vocabulary related to their investigations of rocks, minerals, and erosion. Include: rock, mineral, characteristic, property, scratch test, streak test, igneous, sedimentary, metamorphic, fossil, organism, extinct, soil formation, erosion, natural phenomena.</p> <p>4-4-03. Test to determine characteristics of rocks and properties of minerals, and classify accordingly. Include: scratch test for hardness, streak test for colour.</p> <p>4-4-04. Differentiate between minerals and rocks. Include: minerals are composed of the same substance throughout, rocks are composed of two or more minerals.</p> <p>4-4-06. Give examples of products derived from rocks and minerals</p>
<b>Cluster 0: Overall Skills and Attitudes</b>	
<u>Specific Learning Outcomes:</u>	<p>4-0-4g. Communicate questions, ideas and intentions, and listen effectively to others during classroom-learning experiences.</p> <p>4-0-5a. Select and use tools to observe, measure, and construct.</p> <p>4-0-5c. Record observations in a variety of ways</p> <p>4-0-7a. Draw a conclusion based on evidence gathered through research and observation.</p> <p>4-0-8b. Recognize that scientists must support their explanations using evidence and scientific knowledge.</p> <p>4-0-9b. Demonstrate confidence in their ability to do science</p>
<b>Grade 7</b>	
<b>Cluster 4: Earth's Crust</b>	
<u>Specific Learning Outcomes:</u>	<p>7-4-07. Identify geological resources that are present in Manitoba and Canada, and describe the processes involved in their location, extraction, processing, and recycling.</p> <p>7-4-11. Identify environmental, social, and economic factors that should be considered in making informed decisions about land use</p> <p>7-4-15. Identify specialized careers involving the study of the Earth's crust or the utilization of geological resources, and give examples of technologies used in each</p>

**Cluster 0: Overall Skills and Attitudes**

7-0-4e Demonstrate work habits that ensure personal safety, the safety of others, and consideration for the environment

7-0-5c Select and use tools to observe, measure, and construct

7-0-5f Record, compile, and display observations and data, using an appropriate format

7-0-7a Draw a conclusion that explains investigation results

7-0-8g Discuss societal, environmental, and economic impacts of scientific and technological endeavours

7-0-9c Demonstrate confidence in their ability to carry out investigations