

Exploring Rocks and Minerals

Northwest Territories	
Grade 4	
Earth and Space Science	
<u>General Curriculum Outcomes:</u>	<p>Demonstrate an understanding of the physical properties of rocks and minerals and the effects of erosion on the landscape; Investigate, test, and compare the physical properties of rocks and minerals and investigate the factors that cause erosion of the landscape</p> <p>Describe the effects of human activity (e.g., land development, building of dams, mine development, erosion preventing measures) on physical features of the landscape, and examine the use of rocks and minerals in making consumer products.</p>
<u>Specific Curriculum Outcomes:</u>	<p>Describe the difference between minerals (composed of the same substance throughout) and rocks (composed of two or more minerals)</p> <p>Classify rocks and minerals according to chosen criteria, relying on their observations (e.g., colour, texture, shape)</p> <p>Test and compare the physical properties of minerals (e.g., scratch test for hardness, streak test for colour)</p> <p>Use appropriate vocabulary, including correct science and technology terms, in describing their investigations and observations (e.g., use terms such as hardness, colour, luster, and texture when discussing the physical properties of rocks and minerals)</p> <p>Compile data gathered through investigation in order to record and present results, using tally charts, tables, and labeled graphs produced by hand or with a computer (e.g., use a chart to record findings obtained through a mineral hardness test)</p> <p>Communicate the procedures and results of investigations for specific purposes and to specific audiences, using electronic media, oral presentations, written notes and descriptions, drawings, and charts (e.g., put together a labeled exhibit of rocks found in the local environment; create a chart of the physical characteristics of different types of rocks and minerals)</p> <p>Identify the many uses of rocks and minerals in manufacturing, and in arts and crafts (e.g., china, iron fences, soapstone carvings, jewellery, coins)</p>

Grade 7	
Unit E: Planet Earth	
<u>Specific Outcomes:</u>	2. Identify evidence for the rock cycle, and use the rock cycle concept to interpret and explain the characteristics of particular rocks <ul style="list-style-type: none"> • distinguish between rocks and minerals
General Outcomes	
<u>Skills Outcomes:</u>	Ask questions about the relationships between and among observable variables, and plan investigations to address those questions <ul style="list-style-type: none"> • use instruments effectively and accurately for collecting data • organize data, using a format that is appropriate to the task or experiment
<u>Attitude Outcomes:</u>	<ul style="list-style-type: none"> • Show interest in science-related questions and issues, and pursue personal interests and career possibilities within science-related fields • Demonstrate sensitivity and responsibility in pursuing a balance between the needs of humans and a sustainable environment