



The **Quartermain Earth Science Centre** can help with your curriculum goals in **Earth and Environmental Science**. We offer a collection of inquiry-based, hands-on activities on Earth Science, Environmental Geology, Geological Engineering and Geo-Archaeology, suitable for elementary to high-school students. Activities involve development of analytical, communication and mathematical skills, critical thinking, and problem solving in a collaborative setting. Whether planning a trip to the museum or preparing for a lesson in your classroom, our geological resources can be a useful tool! Contact us to book a visit at the Quartermain Centre or at your school!

**World of Minerals** Students explore minerals and their properties from the Quartermain Earth Science Collections. Students test the properties of minerals followed by learning correct mineral identification.

**Structure of the Earth** Round and Round the Rock Cycle! Take a journey through the rocks that make up our Earth. Students learn how to read rocks by exploring igneous (magmatic), sedimentary and metamorphic rocks.

**Shaping the Landscape** How is Geology like solving a murder mystery? Students learn how to use geological tools to build a story by making good observations, logical interpretations, and analyzing topographic and geological maps and profiles.

**Mining and Resources** Where does our stuff come from? Students learn about the mineral resources needed in every day life. Students define the mining cycle then ponder the requirements of developing a mine in Canada - mine operations and the driving economics involved.

**Geological Time** Excuse me – do you have the Geological Time? Students learn about the geological time scale, relative versus absolute time, and how events and life progressed as written in the rock record.

**Plate Tectonics: Volcanoes and Earthquakes** Earth's powerful engine – Plate Tectonics – has uncovered the mysteries of Volcanoes and Earthquakes. Students explore the living earth, and investigate the world of volcanoes and seismic activity.

**Other Activities Include Optical Sciences, Environmental Sci., Geo-Archeology, Landslides and Fossils!**

## The Earth Science Spin

### *Spin it to Earth Science!*

*Geology is all around us and is connected to science, engineering, technology and social studies. Why not "Spin it to Earth Science" by including an activity on Geophysics, Geochemistry, Palaeontology, Physical Geography, Natural Disasters, Optical Mineralogy, History, Geoengineering, Mining or Environmental Geology? We can help!*

[www.QuartermainEarthScienceCentre.com](http://www.QuartermainEarthScienceCentre.com)

For more information or to book an activity:

Email: [Quartermain@unb.ca](mailto:Quartermain@unb.ca)

Or call: 506-458-7205



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