



Kitimat Museum & Archives

293 City Centre
Kitimat, BC
V8C 1T6



How to book :

Programme fee: \$50.00

This program will be available
September to June. Please call the
Museum to arrange a time.

Call—632-8950

Email—aeastman@kitimatmuseum.ca

Fossils & Geology



Kitimat Museum & Archives

Fossils & Geology Teaching Program

Fossils & Geology

Ancient Life and Land in the Northwest Teaching Program

Did you know that the entire Kitimat Valley right up to Terrace was covered in a glacier 25,000 years ago? Actually the entire Terrace/Kitimat area was once under a sea millions of years ago, then ice, and when the ice melted, under sea again.



What also shaped our landscape millions of years ago was the movement of the earth's plates and the resulting earthquakes and volcanic eruptions. These sorts of events shaped the land, made mountains and moved rock.

This movement and extreme climate change produced fossils. Because Terrace and Kitimat were once under water, ancient fossil beds with fossilized sea animals remain.

If you decide to have this program in your classroom, an instructor and assistants will arrive at your classroom 15 to 20 minutes before the program is scheduled to begin. This Museum group will set up the technical equipment and organize the artifacts, then introductions will be made and the program will begin.



Objectives:

At the end of this program, the participants should:

- say that they have enjoyed the museum's visit to their classroom.
- be able to identify the three main types of rock.
- be able to describe how fossils are created.
- be able to describe tectonic plate movement and landmass formation.



Timing:

Introduction: 5 minutes

PowerPoint: 5 minutes

This presentation is primarily a brief overview of the information on geological history, plate tectonics and volcanoes, fossil creation, rock cycle and the creation of metamorphic, igneous and sedimentary rock.

Hands on Activities 45minutes

- Fossil Find—use your skill as a paleontologist to uncover and classify fossils.
- Earth as a Jigsaw Puzzle: Exploring Pangaea (continental drift and tectonic plate movements).
- Cast Fossils—make a cast fossil to demonstrate how some fossils are formed in nature.
- How Are Rocks Classified—introduce the students to the idea of rock classification
- Metamorphic Rock Formation—explore the creation of metamorphic rock
- Rocks and Cookies—explore the idea that minerals combine to form different types of rock.

The ability to deliver all hands-on activities is dependent on volunteers.

Q&A/Cleanup

5 minutes