

Geology Synopsis 1st-2nd grade



Hartley
Nature Center

MN Academic Standards

supported during HNC program.
More standards can be supported with pre- and post lesson activities.

Science

- 1.1.1.1.1 Support answer with obs.
- 1.1.1.1.2 Describe things accurately
- 1.1.3.2.1 Science tools
- 1.3.1.3.1 Classify rocks
- 1.3.1.3.2 Compare/contrast soils and rocks
- 1.3.1.3.3 Identify if object is made of Earth material
- 2.2.1.1.1 Describe objects by property

Social Studies

- 2.2.4.5.1 Natural resources come from earth

Language Arts

- 0.8.1.1 D, 0.8.3.3, 1.8.1.1 C, E, 1.8.3.3,
- 2.8.1.1 C, E, 2.8.3.3

Authenticity

Students observe local rocks in their natural form and location in Hartley Park.

Goals & Objectives:

This program will:

- Expose students to rocks found in Hartley Park
- Provide an overview of basic geological concepts and how they apply to our everyday lives

Students will be able to:

- Group, classify and describe rocks based on color, shape, size, and texture
- Describe and compare different earth materials
- Differentiate between soil and rock
- Learn how to properly use tools such as a hand lens

Activities

In the Classroom

- What does a geologist study? Discuss how geologists are like Earth detectives.
- What do people use that comes from inside the Earth? Show pictures of items that use things from inside or outside of the earth.

In the Field

- Hike to a rock outcrop in Hartley Park. Explore the rocks using magnifying glasses and toothbrushes to scrub a “fresh face” on the rock.
- Play games that help students group and classify rocks based on color, texture, size, and shape

Bad Weather Alternative

- Group, classify and describe rocks based on color, shape, size, and texture
- Differentiate between soil and rock
- Learn how to properly use tools such as a hand lens to observe rocks