

Geology Synopsis 1st-3rd grade



Summary

Learn what a geologist studies, what the earth is made of, how it affects us, and what do we use that comes from inside the Earth.

MN Academic Standards

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

Science

0.2.1.1.1- Sort rocks based on characteristics

1.1.1.1.1- Support answers based on observation

1.1.1.1.2- Describe things accurately

1.1.3.1.1- Things are made of many parts that must work together

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- Classify rocks

3.1.1.1.1- Provide evidence to support claims

3.1.3.4.1- Use tools such as a magnifying lens

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
- Recognize objects based on previous observations
- Identify basic parts of the Earth and understand how they affect each other
- 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 is the Earth made of? Talk about how the Earth is made of different minerals.
- What do people use that comes from inside the Earth? Show objects to students and ask if it is from inside the Earth 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
- Recognize objects based on previous observations
- Identify basic parts of the Earth and understand how they affect each other
- Differentiate between soil and rock
- Learn how to properly use tools such as a hand lens