

Rock Cycle 6th - 8th

Program Description

Dig into northeastern Indiana's rich geological history! Students discover the impact glaciers had on this area by seeing glacial activity up close. Hike down an esker, move through layers of topsoil and glacial till to find a peat bog, explore and identify rocks in an abandoned gravel pit, and use models to understand how glaciers changed Indiana's landscape.

Program Objectives

Students will:

- Discover how the landscape in northeastern Indiana has changed over time
- Learn about the forces that changed the landscape
- Explore how the rocks and soil influence the plants and animals that live in this area

Program Outline

Students rotate in groups through four different activity stations:

- 1. Lab Investigation: Students learn about the history of the landscape and use microscopes to do some closeup investigation
- 2. The Models: Students try out models of changing landscapes and investigate how humans make use of rocks and gravel
- 3. Gravel Pit: Students explore an old gravel pit to look at rocks brought here from the last glacier and deposited in an esker
- 4. Esker Hike: Students hike a glacial feature called an esker and explore different ecosystems along the way

Vocabulary

- Landscape
- Esker
- Metamorphic Sedimentary

- Glacier
- Igneous

Quick Facts



Season

Fall: September - November Spring: April - May

Grades 6th - 8th

Program Length 4 hours

Maximum # of Students 80 Students

tandards Correlation

ESS1.A: The Universe and Its Stars: The planet's systems interact over scales that range from microscopic to global in size, and they operate over fractions of a second to billions of years. These interactions have shaped Earth's history and will determine its future. (MS-ESS2-2)

ESS2.C: The Roles of Water in Earth's Surface Processes: Water's movements—both on the land and underground—cause weathering and erosion, which change the land's surface features and create underground formations. (MS-ESS2-2)

ESS2.C: The Roles of Water in Earth's Surface Processes: Water continually cycles among land, ocean, and atmosphere via transpiration, evaporation, condensation and crystallization, and precipitation, as well as downhill flows on land. Global movements of water and its changes in form are propelled by sunlight and gravity. (MS-ESS2-4)