

# Rocks and Beyond

Grades 1–3  
Educational Program Guide



**PASS**

Science Process 1.1, 1.2, 2.1, 3.1, 3.2; | **1<sup>st</sup> Grade** Physical Science 1.1, 1.2  
**2<sup>nd</sup> Grade** Physical Science 1.1; Earth and Space Science 3.1  
**3<sup>rd</sup> Grade** Physical Science 1.1; Earth and Space Science 3.1

**OAS**

**5-PS1-3** | Science Practices 1, 2, 4, 6, 8 | Core Ideas ESS3 |  
Crosscutting Concepts: Patterns, Structure and Function, Stability and Change

## Program Overview

The museum educator will lead the class in a brief discussion about geology and the differences between rocks and minerals. Then, the class will work together to sort different rocks and minerals. Finally, the class will look at other mineral resources, like oil and find out how oil forms and how we use it every day. The class will have a few minutes at the end of the session to explore the Discovery Room and find some examples of rocks and minerals on their own.

## Objectives

After participating in this program, students will be able to:

- ➔ Understand the difference between minerals and rocks;
- ➔ Understand the importance of natural resources in our everyday lives;
- ➔ Understand where crude oil is found and that it can be changed into different things

## Background

Geology is the study of things that come from the earth including rocks and minerals. From plastic bottles to buildings, mineral resources make up many of the things we use every day! For example, did you know that plastic comes from the mineral resource crude oil? Crude oil is taken out of the ground and taken to a refinery where it is turned into all kinds of products.

## At the Museum

### *Hall of Ancient Life*

As your class visits this gallery, find the display of the cross-section of the earth at the entrance of the gallery. To the left is a case highlighting the variety of rocks and minerals found within the earth can they tell which are rocks and which are minerals?

In the Devonian section of the gallery, read the "Oklahoma Petroleum" panel that explains how oil, a natural resource, was formed millions of years ago. Ask your students if they can name different manufactured products that are made from oil.

## Vocabulary

**Geology**

the study of rocks, minerals and things that come from the earth

**Rock**

two or more minerals that have been combined using heat and pressure from the earth

**Mineral**

A solid crystal substance found in the earth

**Natural Resource**

Something of value that humans get from the earth