

# Raw to Refined

Grades 1-3

Educational Program Guide



**PASS**

**Grade 1** Science Process 1.1, 1.2, 2.1, 2.2 | Physical Science 1.1, 1.2

**Grade 2** Science Process 1.1, 1.2, 2.1, 2.2 | Physical Science 1.1 | Earth/Space Science 3.1

**Grade 3** Science Process 1.1, 1.2, 2.1, 2.2 | Physical Science 1.1

**OAS**

**1-ESS3-1** | Science Practices 1, 2, 3, 4, 6, 7, 8 |

Core Ideas ESS3

## Program Overview

The museum educator will lead the class in a discussion about how people use and interact with natural resources, like oil, in everyday life. The class will learn the difference between raw materials and manufactured products. Students will end the class with an activity where they classify a variety of common manufactured objects based on their raw materials.

## Objectives

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

- Understand the difference between natural objects and objects made by people;
- Define natural resources and manufactured products;
- Match a manufactured product with the natural resource from which it is composed.

## Background

Many raw materials are collected from the Earth and produced into manufactured products that people use in everyday life. For example, once oil is drilled and collected it is then transported to factories called refineries. In these refineries, the oil is processed into different materials like plastic, nail polish, and ink.

## At the Museum

### *Hall of Ancient Life*

As your class visits this gallery, read over the “Oklahoma Petroleum” panel that explains how oil, a natural resource, was created millions of years ago. Ask your students if they can name different manufactured products that are made from oil.

### *Hall of Natural Wonders*

Explore this gallery together and challenge your students to find different types of natural resources.

## Vocabulary

<b><i>Natural Resources</i></b>	something of value that people get from the environment
<b><i>Raw Materials</i></b>	material before being processed or manufactured into a final form
<b><i>Manufactured Products</i></b>	products that human make
<b><i>Refineries</i></b>	an establishment that purifies materials, like petroleum, to a finer state