

## STEAM Lesson Plan

**Author:** Casey Russell

**Class/Subject:** Kindergarten/Science

**Performance Objective:** [K.6S.C1.PO1] - I can find and name earth materials.

**Learning Objective:** Students will be able to identify and name three basic earth materials: rock, soil, and water.

**Blooms Level or DOK Level:** Blooms level: Knowledge

### Essential Questions:

- What are basic earth materials?
- Why are basic earth materials important?

### Anticipatory Set:

“Today we will learn about earth materials. Our planet is made of three basic materials, which we will be using today. I will name five different materials. With your response stick, you will decide which materials are basic earth materials, and which are not.” Students will use “true/false” response sticks to respond to each statement.

- “Water is a basic earth material.”
- “Plastic is a basic earth material.”
- “Rock is a basic earth material.”
- “Cardboard is a basic earth material.”
- “Soil is a basic earth material.”

“The three basic earth materials are water, soil, and rock. We will use all three basic earth materials today to plant a flower.”

### Direct Instruction

Modeling/Guided Practice: Use “Earth Materials” presentation to explain attributes of rock, soil, and water. Students will answer discussion questions during the presentation with a partner. Show a real example of each earth material as it is discussed.

Checking for Understanding: I will ask comprehension questions during the presentation. Students will answer comprehension questions with a partner. As students discuss their answers to each question, I will listen to responses and address misconceptions or further prompt the conversation.

Independent Practice: With a partner, students will combine three basic earth materials in a cup. Students will draw and label the basic earth materials on their “Earth Material Diagram”. When both partners’ diagrams are complete, each pair will receive a flower to plant in the soil.

### **Active Participation**

**Covert:** Students will listen to discussion and comprehension questions during the Guided Practice portion of the lesson. Students will think about their answers to each question before discussing with a partner.

**Overt:** I will ask questions to check for understanding throughout the lesson. Students will be chosen to respond at random with name sticks and a random name selector. Students will use response sticks to respond to true/false statements during the Anticipatory Set.

**Combination:** Students will work in partners to encourage participation and cooperation.

**Closure:** “Today we learned that the three basic earth materials are rock, soil, and water. When I say ‘share’ you will share one thing you learned about earth materials.” Students will be selected at random to share one new fact their partner learned about earth materials

**Assessment:** During the Independent Practice segment of this lesson, I will ask pairs of students to name each earth material at their table. I will ask students to explain why each material is important, and to name one use of any material. I will formally assess understanding of the learning objective based on the completed diagram of each student.

### **Resource(s)/Materials**

- Plastic cups
- Soil
- Rocks
- Water
- Flowers with stem attached