

Earth's Layers

5.7 The student will investigate and understand how Earth's surface is constantly changing. Key concepts include:

- c. Earth history and fossil evidence;
- d. the basic structure of Earth's interior;
- e. changes in Earth's crust due to plate tectonics;
- f. weathering, erosion, and deposition;

Essential Questions

.How do we know that the Earth's surface changes over time?

How does Earth's interior affect its surface?

Why do some places on Earth have a lot of earthquakes?

How is the land on our school grounds changing?

How can we take action to preserve our school grounds?

Agenda

1. Pictorial Input for layers of the Earth 10 minutes
2. Play doh Models of the Earth --use Input Chart-- 10 minutes



You need to show four layers, with appropriate thicknesses of each layer of the Earth. Label your models with toothpicks and post its.

3. Logic Game-- "It's Sedimentary- My Dear Watson" 10 minutes

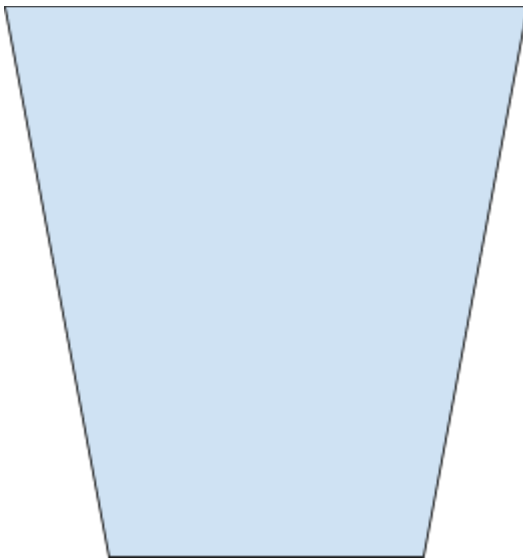
Objective- understand what a layer is and understand the age of layers and that fossils are formed in sediment.

Directions: Order your jars using these sentences as your guide. This is a logic game. Talk and work together to figure this out.

1. The white sand layer is the oldest layer.
2. The humus layer is younger than the gravel layer.
3. The dark sand layer is older than the gravel layer but younger than the white sand layer.

4. Mason Jar Sediment Models (Which is the oldest layer?) 10 minutes

Directions: Follow teacher prompt, pouring your materials into the Mason jar. When you finish, draw and label what you made, noting relative age of each layer.



1. How do we know that the Earth's surface changes over time? _____

2. How does Earth's interior affect its surface? _____

3. Why do some places on Earth have a lot of earthquakes? _____
