INV. 2 ACTIVITY—STREAM TABLE MEDIA

Online Resources on FOSSweb (Must log in to FOSSweb with a username and password)

Use these online resources to help review content from Investigation 2 of Soils, Rocks, and Landforms. The **tutorials and virtual investigations** provide interactive resources that review concepts from the FOSS active investigations. The virtual investigations often mimic the active investigations that were done in class.

For the articles in *FOSS Science Resources*, access the **interactive eBook** and make sure to click on the interactive links within the readings. Take notes on what you learn from the online resources and respond to the questions from the articles in your science notebook.

Investigation 2 Digital Resources

Multimedia:

- Stream Tables videos

Tutorial:

- Stream Tables: Slope and Flood
- Soil Formation

Virtual Investigation:

- Stream Tables

Streaming Video:

- Weathering and Erosion

FOSS eBook Readings

- Erosion and Deposition
- Landforms Photo Album

INV. 2 ACTIVITY—SOIL FORMATION

Focus Question: How is soil formed and how does that relate to erosion and deposition?

Use the online tutorial on FOSSweb to review the concept of soil formation and erosion and deposition.

Instructions:

1. Go to the FOSS website (www.FOSSweb.com) and login with your student credentials. (If your school/district has its own unique web URL for accessing FOSSweb, please be sure to use that URL instead.)
2. Navigate to the **Soils, Rocks, and Landforms** resources by clicking on the image for the module.
3. Click the "Tutorial" drop-down menu under "Online Activities."
4. Click on the "Soil Formation" tutorial and interact with it.
5. As you watch the first part of the tutorial, take notes on the different types of soil and what makes them different.

INV. 2 ACTIVITY—SOIL EROSION

Investigation 2: Landforms

Focus Question: How does the soil in my backyard erode?

In class we saw how setting up an erosion model (stream table) helps us to understand how earth materials can erode from the effects of flowing water. In this investigation, see how flowing water affects an area in your own backyard. If you do not have a backyard, investigate a small area in your local park or neighborhood.

Materials:

- Large plastic or paper cup
- Pencil with a point and a push pin
- Water in a large water bottle or a recycled plastic jug
- Rocks (optional)

Instructions:

1. Use the pencil with a point to poke a hole in the bottom of the cup. Start by making a small hole with a push pin. Use the pencil point to make the hole larger.
2. Go outdoors and find a soil location in your yard with a slight slope.
3. Place some rocks at the top of the slope as a marker of where you are starting the water flow.
4. Hold or lean the cup against the rocks. Be sure the water flow will not be blocked by the rocks.
5. Fill the cup with water and observe how the water interacts with the soil. If your family can help you, have them take pictures of what happens.
6. Refill the cup and repeat the water flow as many times as you need to see erosion taking place.
7. Try the investigation again but put a larger hole in the bottom of the cup or find a location that has obstacles in the slope such as rocks or plants.

- What did you observe?
- How does the soil erode in your yard?
- How does the erosion compare to what you observed in the stream tables in class?
- What happens when the flow of the water is increased (larger hole in the cup)?
- What happens when there are obstacles in the path of the water flow (rocks and plants)?

INV. 2 ACTIVITY—KINDS OF FOSSILS

Investigation 2: Landforms

Focus Question: What are the different kinds of fossils and how are they formed?

Use the online tutorial on FOSSweb to review the concept of fossil formation.

Instructions:

1. Go to the FOSS website (www.FOSSweb.com) and login with your student credentials. (If your school/district has its own unique web URL for accessing FOSSweb, please be sure to use that URL instead.)
2. Navigate to the **Soils, Rocks, and Landforms** resources by clicking on the image for the module.
3. Click the "Tutorial" drop-down menu under "Online Activities."
4. Click on the "Fossils" tutorial and interact with it.
5. As you watch the first part of the tutorial, take notes on the different types of fossils and how they are formed.
6. Do some research. Have any fossils been discovered near your home? If so, what was found?

   What kind of fossils were they?

   What information does that give you about the area?