



Explain: Demonstration of Mastery

“Earth’s Materials Foldable”

Materials Module

This activity provides students with the opportunity to demonstrate concept mastery by creating a foldable that shows how living things use Earth’s materials.

This offline demonstration of mastery activity can be completed after participation in the online Explain.

Objective: Upon completion of this activity, students will be able to identify the characteristics of Earth’s materials with 80% accuracy.

Estimated time for activity: 20 minutes

Materials:

- Materials foldable template
- Colored copy paper
- Crayons or colored pencils
- Scissors

Procedure:

- 1 Copy foldable template onto colored copy paper, one per student.
- 2 Distribute supplies so every student has a foldable template, crayons or colored pencils, and scissors.
- 3 Students fold template along the *fold line*.
- 4 Students cut flaps along the *cut lines*.
- 5 Students write “Earth’s Materials” in the title box along the bottom of the foldable.
- 6 Students write the name of and draw a picture of each Earth material on the front flaps, from left to right: rocks, soil, water.
- 7 Display on front board a list of living things and a separate list of different ways living things use Earth’s materials for students to use as suggestions.
- 8 Students fill in and trace the missing words in the sentence stems that tell how living things use each Earth material. On the top, inside flaps. from left to right, have students write the following: This is how (choose living thing) use *rocks (dotted letters)*. This is how plants use *soil (dotted letters)*. This is how (choose living thing) use *water (dotted letters)*.
- 9 Students draw an example picture on the bottom, inside flaps that shows each material of the Earth being used by a living thing.
- 10 Circulate and assist as appropriate as students complete the foldable.
- 11 Use completed foldables to lead a discussion about how living things use Earth’s materials.

Accommodations:

If students have difficulty constructing the foldable or if materials are an issue, a variety of accommodations can be employed.

- The teacher can model the construction of the foldable and conduct the activity at the front of the class.
- The activity can be completed at a center with an aide or with the teacher.
- The activity can be completed in peer groups of two to three.
- The activity can be completed with a science buddy from an older grade.

This is how

use

rocks

Cut here

This is how

plants use

soil

Cut here

This is how

use

water

Fold here