

EARTHWORKS

Dig into Earth Science! Uncover rock samples and discover how they formed. Inspect fluorescing minerals. Model the moving plates that cause bends and breaks. See how sediment stacks with the Experi-tube.

SUMMARY:

Children dig-in to Earth science! Earth's layers are introduced with a spotlight on its outer rocky layer. Children check out three rock samples to find out how they were made and where they were formed. They inspect minerals with an ultraviolet light to see them fluoresce. They model the moving plates that cause bends and breaks in the Earth's solid rock layer. Tremors are created to tip a tower, and then things get rocky with the Experi-tube Take-Home. Children can make it and shake it to see sediment settle into layers!

EDUCATIONAL VALUE:

Children are introduced to the science of geology. They examine three different rock types and learn how and where they formed. Children investigate tectonic plates and learn how their movements cause stress on the Earth. They discover that these movements can cause mountains to form, earthquakes to occur, and volcanoes to erupt. The children make and take home a sedimentator. It reinforces the concept of sedimentary rock formation learned in class.

TAKE-HOME MESSAGE:

- 1 The Earth is made up of three layers. One layer is solid rock.
- 2 The top layer has moving plates. These moves cause the solid rock layer to bend and break.
- 3 Sedimentary is one rock type. Rocks go through changes.

TAKE-HOME PRODUCT:

Sedimentary Stacker



NORTH CAROLINA ESSENTIAL STANDARDS:

- 1.E.2.1 Summarize the physical properties of Earth materials, including rocks, minerals, soils and water that make them useful in different ways.
- 4.P.2.3 Classify rocks as metamorphic, sedimentary or igneous based on their composition, how they are formed and the processes that create them.
- 4.E.2.3 Give examples of how the surface of the earth changes due to slow processes such as erosion and weathering, and rapid processes such as landslides, volcanic eruptions, and earthquakes.