

IN SOLID WITH EARTH

Children work to understand the physical properties of Earth materials that make them useful in different ways.

SUMMARY:

This 1st Grade Workshop compares the properties of soil samples from different places and students learn about the physical properties of earth materials, including rocks and minerals. Children will erupt a volcano, study cool rock samples and get the dirt on...dirt!

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. This workshop provides students with an introduction to geology, including an understanding of the geological formation processes, classification systems, identification methods, and physical properties of rocks and minerals. 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:

Summarize the needs of living organisms for energy and growth.

- 1.E.2.1 Summarize the physical properties of earth materials, including rocks, minerals, soils and water that make them useful in different ways.
- 1.E.2.2 Compare the properties of soil samples from different places relating their capacity to retain water, nourish and support the growth of certain plants.