

Earth Explorers

Dig into Earth Science! Uncover rock samples and discover how they formed. Create a volcano. Model the moving plates that cause bends and breaks. See how erosion works with the Experi-tube.

SUMMARY:

Children dig-in to Earth science! Earth's layers are introduced with a spotlight on its outer rocky layer. They model the moving plates that cause bends and breaks in the Earth's solid rock layer. Students will create a model volcano that erupts under the pressure they apply, and watch as the landscape is changed.

They will see how their favorite beaches may change over time and how we can protect the sand there. Kids will have a chance to investigate a variety of fossils. After simulating a landslide, children will take a closer look at erosion with the Experi-tube Take-Home.



EDUCATIONAL VALUE:

Children are introduced to fossils. They examine different processes that change the Earth's surface over time. 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 an erosion tube.

TAKE-HOME MESSAGE:

- 1 Fossils are evidence of living organisms that once existed on Earth.
- 2 Fossils let us know about the conditions on Earth in the past.
- 3 Erosion and weathering are processes that change the Earth over time.

TAKE-HOME PRODUCT:

Mad Science® Erosion Tube



North Carolina Essential Standards:

Understand the use of fossils and changes in the surface of the earth as evidence of the history of the Earth and its changing life forms.

- 4.E.2.1 Compare fossils (including molds, casts, and preserved parts of plants and animals) to one another and to living organisms.
- 4.E.2.2 Infer ideas about Earth's early environments from fossils of plants and animals that lived long ago.
- 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.