

CONNECTIONS TO SCIENCE GUIDES

GEORGIA YOUTH SCIENCE & TECHNOLOGY CENTERS, INC.

THE STREET BENEATH MY FEET

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CAN'T FIND THE BOOK?
READ-ALOUDS ARE AVAILABLE
ON YOUTUBE.



HAVE YOU EVER NOTICED...

- that Earth materials like rocks and soils have different colors?

HAVE YOU EVER WONDERED...

- what the inside of our Earth looks like?

EXPLORE

EARTH'S LAYERS

Materials:

- Play-Doh (4 colors)
- Plastic knife
- Toothpicks
- Post-It Notes or small pieces of paper
- Pencil

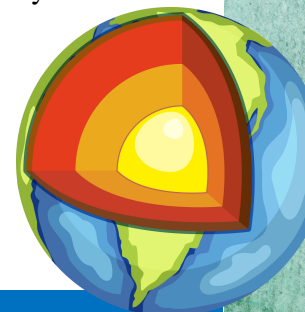


Directions:

- Begin by picking a color and rolling a small ball to represent the inner core.
- With a different color, cover the inner core with another layer of Play-Doh to represent the outer core.
- With a third color, cover the outer core with another, thicker layer of Play-Doh to represent the mantle.
- Finally, cover the mantle with another, thin layer of Play-Doh in the last color to represent the Earth's crust.
- Slice the ball in half to reveal the layers. Using toothpicks and small pieces of paper, label the layers.
- As you are exploring, think about:
 - What are the functions and characteristics of each layer of the Earth?
 - How do the layers interact and why are they important to Earth's structure?

Connection to Art:

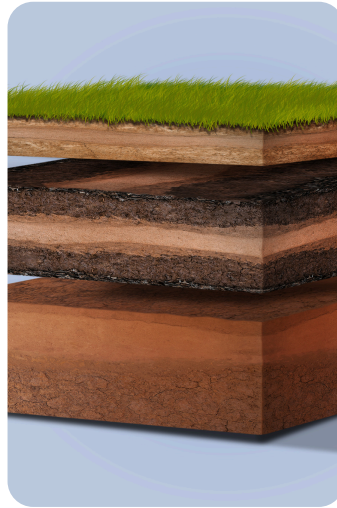
- 3D models provide a visual and tactile experience to make learning complex scientific concepts, like layers of the Earth, easier.



EXPLAIN

LAYERS OF THE EARTH

Earth has four layers: the inner core, outer core, mantle, and crust. The inner core is a solid ball of iron and nickel at the center of the Earth. Next, is the outer core which is also made of iron and nickel. Third is the mantle, the thickest layer, which geologist believes “flows” around the Earth. Last is the crust, the outermost layer of Earth.



EXTEND

VISIT A ROCK QUARRY



Explore the Earth’s crust more in depth with a visit to an old rock quarry. Georgia has several rock quarries across the state that you can explore like the one at Goizueta Gardens in Atlanta, Georgia.

STEM CAREER

GEOLOGISTS

A geologist is a scientist who studies Earth’s physical structure, composition, and processes. At work, geologists study seismic waves of earthquakes, rocks, and rock layers since they cannot directly access Earth’s interior. If you are interested in the layers of the Earth, being a geologist might be for you!



BACKGROUND

The Georgia Youth Science and Technology Centers, Inc. provides quality programs for teachers of STEM subjects that improve the teaching and learning process at the kindergarten through eighth grade levels. We present programs that change students’ perceptions and inspire an appreciation for science, technology, engineering, and mathematics subjects.

ABOUT US

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