INVESTIGATION PROGRAM SUMMARY

INVESTIGATION
GEOLOGY

Level: **Grades 3-5** Length: **45 minutes**

PROGRAM DESCRIPTION

Get an immersive experience in the field of geology! Students will explore the processes which form rocks, minerals, and Earth's landscapes in this station-rotation investigation program. Inquiry-based activities will engage students with the science and natural history of Earth's incredible features.

CURRICULUM CORRELATIONS

Students will:

- Examine physical properties of rocks, including color, patterns, and textures. **S3E1a**
- Observe how wind and water can change rocks and soils over time. **S3E1c, S5E1a**
- Discover the destructive and constructive properties of earthquakes and volcanoes. **S5E1a**
- Connect Earth's structure and processes to recognizable landscape features. **S5E1b**

ESSENTIAL QUESTION

In what ways is Earth an *active* and *changing* system?

PROGRAM VOCABULARY

Compaction
Magma Chamber
Conduit/Vent
Metamorphic
Erosion
Non-Foliated
Foliated
Parent Rock
Igneous
Sedimentary

ASSOCIATED VOCABULARY

Core
Mantle
Crust
Mineral
Geology
Plate Tectonics
Landform
Rock

PRE-VISIT ACTIVITIES

As a class, review vocabulary. Discuss what subjects are studied under the umbrella of geology. Briefly review the three rock types and their basic formation.

AT THE MUSEUM

Visit **Fantastic Forces** to experience the active forces of Earth. Also visit **A Walk Through Time in Georgia** to view the Plate Tectonic Theater maps and videos on continental collisions.

POST-VISIT ACTIVITIES

Have students research and write a report about recognizable geologic feature (such as Stone Mountain, the Hawaiian Islands, etc.), how it formed, and the rocks and minerals which comprise it.

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