



EXPLOSIVE EARTH

Level: **Grades 3-5**

Length: **45 minutes**

PROGRAM DESCRIPTION

Witness the awesome power of planet Earth and learn what goes on beneath the surface to create these awe-inspiring events. Using demonstration and discussion, students will explore what drives these geologic events and learn more about the role of plate tectonics in shaping our planet.

CURRICULUM CORRELATIONS

Students will:

1. Discover the destructive and constructive properties of earthquakes and volcanoes. **S5E1a**
2. Explore the inner workings of the earth as well as these events. **S5E1b**
3. Learn how humans are working to predict these geologic events and how to minimize their impact. **S5E1c**

ESSENTIAL QUESTION

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

PROGRAM VOCABULARY

Effusive	Explosive	Lahar	Liquefaction
P Waves	Pyroclastic	S Waves	Tsunami

ASSOCIATED VOCABULARY

Convection	Crust	Fault/Boundary	Plate Tectonics	Subduction
Convergent	Divergent	Mantle	Ring of Fire	Transform

ADDITIONAL RESOURCES

Access to additional resources, including pre- and post-program activities will be available through Fernbank's virtual learning platform, Moodle.com. You will be provided registration access prior to your program date to establish your Moodle account.