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EXPLOSIVE EARTH

	Level: Grades 6-8	Length: 45 mir	nutes	
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: Discover the destructive and constructive properties of earthquakes and volcanoes. S6E5f Explore the inner workings of the earth as well as these events. S6E5a,f; S8P2d Learn how humans are working to predict these geologic events and how to minimize their impact. 			
ESSENTIAL QUESTION	In what ways is Earth an <i>active</i> and <i>changing</i> system?			
PROGRAM VOCABULARY	Effusive P Waves	Explosive Pyroclastic	Lahar S Waves	Liquefaction Tsunami
ASSOCIATED VOCABULARY	Convection Mantle Convergent	Plate Tectonics Crust Ring of Fire	Divergent Subduction Fault / Boundary	Transform
PRE-VISIT ACTIVITIES	As a class, review vocabulary. Discuss some of the earliest explanations for earthquakes and volcanoes, both those of myth and those from the scientists of the day.			
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. Looking for a paleontological connection? Check out our Giants of the Mesozoic to see some incredible animals of in our tectonic past.			
POST-VISIT ACTIVITIES	Discuss major historical events related to the movement of tectonic plates (volcanoes, earthquakes, tsunamis) and plot the events and dates on a world map to identify patterns. Have students research the history of seismology to discover the latest advances in detecting earthquakes and tsunamis.			