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Everything You Need for Earth Science Education

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Monitoring Active Volcanoes
United States Geological Survey (USGS)
This on-line edition contains the text from the original book in its entirety.

**Resource Type:** Curricula and Instruction, Curriculum Materials

**Grade Level:** 9, 10, 11, 12

Climate change: Earth's giant game of Tetris
TED-Ed
There's a game of Tetris happening on a global scale: The playing space is planet Earth, and all those pesky, stacking blocks represent carbon dioxide -, a greenhouse gas that is piling up ever more rapidly as we burn the fossil fuels that run our cars, factories and power plants. Joss Fong...

**Resource Type:** Teaching Media, Videos or Animations

**Grade Level:** 9, 10, 11, 12

Eruptions in the Cascade Range During the Past 4,000 Years
United States Geological Survey (USGS)
Volcanoes have been erupting in the Cascade Range for over 500,000 years. During the past 4,000 years eruptions have occurred at an average rate of about 2 per century. This chart shows 13 volcanoes on a map of Washington, Oregon, and northern California and time lines for each showing the ages of...

**Resource Type:** Curricula and Instruction, Curriculum Materials

**Grade Level:** 6, 7, 8, 9, 10, 11, 12

30 Cool Facts about Mount St. Helens
United States Geological Survey (USGS)
This downloadable poster presents a picture of Mount St. Helens and 30 cool facts about it.

**Resource Type:** Curricula and Instruction, Curriculum Materials

**Grade Level:** K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Living with a volcano in your backyard: an educator's guide with emphasis on Mount Rainier
National Park Service (NPS)

Today’s residents, as well as residents of centuries past, consider Mount Rainier “the spiritual and cultural icon of the Pacific Northwest.” As a backdrop for many of the State’s residents, Mount Rainier offers beauty, solace, inspiration, and challenge. The mountain sets the daily mood...

**Resource Type:** Curricula and Instruction, Curriculum Materials

**Grade Level:** 9, 10, 11, 12

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How tsunamis work
TED-Ed

The immense swell of a tsunami can grow up to 100 feet, hitting speeds over 500 mph -- a treacherous combination for anyone or anything in its path. Alex Gendler details the causes of these towering terrors and explains how scientists are seeking to reduce their destruction in the future.

**Resource Type:** Teaching Media, Videos or Animations

**Grade Level:** 6, 7, 8, 9, 10, 11, 12

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The Dynamic Earth: the Story of Plate Tectonics
United States Geological Survey (USGS)

This book was originally published in paper form in February 1996. View various sections of the book here, or order it from the US Government Printing Office.

**Resource Type:** Curricula and Instruction, Curriculum Materials

**Grade Level:** 9, 10, 11, 12

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Geologic Hazards at Volcanoes
United States Geological Survey (USGS)

Most volcano hazards are associated with eruptions. However, some hazards, such as lahars and debris avalanches, can occur even when a volcano is not erupting.
The colossal consequences of supervolcanoes
TED-Ed
In 1816, Europe and North America were plagued by heavy rains, odd-colored snow, famines, strange fogs and very cold weather well into June. Though many people believed it to be the apocalypse, this year without a summer was actually the result of a supervolcano eruption that happened one year...

A New Perspective on Mount St. Helens, Dramatic Landform Change and Associated Hazards at the Most Active Volcano in the Cascade Range
United States Geological Survey (USGS)
Poster detailing the after-effects of Mount St. Helen's eruption in 1980.

Recently Loaded Resources

Lunar & Meteorite Sample Disk Program
The Lunar and Meteorite Sample Disk Program is intended for K-12 classroom teachers, or qualified museum and library education staff. In order to be eligible to receive the Sample Disks, a user must be certified to borrow the Lunar and Meteorite Sample Disks by attending a NASA Certification...

About Education GeoSource
https://egs.americangeosciences.org
Education GeoSource compiles geoscience education resources from a variety of organizations, providing credible and accurate Earth and Space Science resources for all ages. Visitors have access to thousands of free resources, from lessons to outreach and teacher professional development, for use in classrooms, scout programs, or at home.

We encourage visitors to review our collections, suggest other resources, and let us know when items are out of date or problematic for other reasons.

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