Education GeoSource

Everything You Need for Earth Science Education

Search for geoscience education resources from a variety of organizations that provide credible and accurate Earth and Space Science resources for all ages. The Education GeoSource database has thousands of free resources, from lessons to outreach and teacher professional development, for use in classrooms, scout programs, or at home.

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Perform a Quick Search using the search box below to find the 10 most relevant resources for your search.

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GreenLearning Programs

GreenLearning creates free online education programs about energy and sustainability that engage and empower students to create positive change for our evolving world. To build our programs, we combine input from national surveys and consultations with teachers and education professionals to inform...

**Resource Type:** Classroom Activities, Curricula and Instruction  
**Grade Level:** 4, 5, 6, 7, 8, 9, 10, 11, 12

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**Why aren't we only using solar power?**

TED-Ed

Solar power is cheaper and more sustainable than our current coal-fueled power plants, so why haven't we made the switch? The real culprits here are the clouds, which make solar power difficult to control. Alexandros George Charalambides explains how solar towers and panels create electricity...

**Resource Type:** Teaching Media, Videos or Animations  
**Grade Level:** K, 1, 2, 3, 4, 5, 6, 7, 8, 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 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...

**Resource Type:** Teaching Media, Videos or Animations  
**Grade Level:** 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
What happens when continents collide?
TED-Ed
Tens of millions of years ago, plate tectonics set North and South America on an unavoidable collision course that would change the face of the Earth and spell life or death for thousands of species. Juan D. Carrillo explains the massive biological repercussions of this collision, which caused one...

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

**Grade Level:** 5, 6, 7, 8, 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

International Union of Speleology (UIS)
Union Internationale de Spéléologie (UIS)
The Union Internationale de Spéléologie (UIS) is the international body for caving and speleology. Formed in 1965, its voting members consist of a delegate from each member country. This delegate represents the country's cavers and speleologists, rather than its national body(s). An...

**Resource Type:** Geoscience Organizations, Organizations

Global Mineral Resource Assessments
United States Geological Survey (USGS)
In response to the growing demands for information on the global mineral-resource base, the U.S. Geological Survey (USGS) completed assessments for undiscovered resources of porphyry and sediment-hosted copper, platinum-group elements, and potash. The USGS conducts national and global assessments or...

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

**Grade Level:** 11, 12

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Frank Gregorio’s Earth Science Videos
Frank Gregorio
These professionally prepared videos are a great introduction to a variety of science topics.

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

**Grade Level:** K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

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Where does gold come from?
TED-Ed
Did you know that gold is extraterrestrial? Instead of arising from our planet’s rocky crust, it was actually cooked up in space and is present on Earth because of cataclysmic stellar explosions called supernovae. CERN Scientist David Lunney outlines the incredible journey of gold from space to...

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

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

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Recently Loaded Resources

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Sustainable Communities! How will we help our community thrive?
Smithsonian Institution
Sustainable Communities! is a freely available community research guide developed by the Smithsonian Science Education Center (SSEC) in partnership with the InterAcademy Partnership as part of the Smithsonian Science for Global Goals project. These Smithsonian Science for Global Goals community...

**Resource Type:** Classroom Activities, Curricula and Instruction, Curriculum Materials, Virtual Activities

**Grade Level:** 6, 7, 8

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**About Education GeoSource**

[https://egs.americangeosciences.org](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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