Explore Content

Explore Science Content

Why do hurricanes regularly hit Florida? How do earthquakes happen? What types of rocks are found in your backyard? Here you'll find answers to many of your questions about Earth science!

You can "dig deeper" into the science topics below. Explore curricula and instruction resources, teaching media resources, and outreach activities related to each topic. While this content is written for you, the teacher, you might find that you can adapt it for upper elementary students.

Explore the links below to deepen your knowledge and capacity to teach Earth science!

Climate

Fossils

Rocks
Search for K-5 Media Resources

Want to show your students examples of Earth processes? Use the search fields below to find image collections, presentations, videos and animations, virtual field trips, maps and visualizations and data sets in the Education Geosource database.

Search the Education GeoSource database

Perform a Quick Search using the search box below to find the 10 most relevant teaching media resources in the Education GeoSource database.

Access the Education GeoSource database at: https://egs.americangeosciences.org

Enter your search terms

Search
Volcano about the clouds
Public Broadcasting Service (PBS)
For those who live on or near mountains, a change of climate can be just a short walk away. That's because mountains create their own microclimates: areas in which the climate differs from the prevailing climate. See how the movement of air creates different microclimates on a mountain
Resource Type: Teaching Media, Videos or Animations
Grade Level: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Take a Walk on the Rocky Side at Green Point, Canada
vEcotourism
Canada’s Gros Morne park, on the comparatively sheltered Western coast of Newfoundland, is a geology lover’s paradise and a designated UNESCO natural world heritage site. From precipitous land-locked fjords to the curiously sterile exposed mantle of the Tablelands formation, this is a wild...
Resource Type: Teaching Media, Virtual Field Trips
Grade Level: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Tour the Solar System
Public Broadcasting Service (PBS)
For those wanna-be astronauts and space travelers out there, this interactive model of the solar system could prove to be highly addictive. With one click, you can visit Saturn, Venus, or the other planets and then spin and explore them in three
Solar System Tour
Nine Planets
An interactive tour of the solar system. Students can click on various elements of our solar system and gain information on their size, atmosphere, geologic features, and other scientific facts.

Resource Type: Teaching Media, Virtual Field Trips
Grade Level: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Photo Gallery of Vermont Geology
Vermont Geological Survey (VGS)
Photo Gallery from Vermont's Geological Survey

Resource Type: Image Collections, Teaching Media
Grade Level: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Do Small Classes Reduce the Achievement Gap between Low and High Achievers? Evidence from Project STAR
2008, The Elementary School Journal
Given that previous findings on the social distribution of the effects of small classes have been mixed and inconclusive, in the present study I attempted to shed light on the mechanism through which small classes affect the achievement of low, and high-achieving students. I used data from a 4-year...

Resource Type: Education Reports, Professional Resources

National Recycle Week (changing dates)
Planet ARK
In November 1996, Planet Ark founded National Recycling Week to bring a national focus to the environmental benefits of recycling. Now in its 21st year, this established and highly regarded annual campaign continues to educate and stimulate
behavior change by: promoting kerbside, industrial and...

**Resource Type:** Commemorative Days and Events, Outreach Programs

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**K-12 Community**  
**Comet MetEd**  
COMET and MetEd offer many resources suitable for use in teaching geosciences to students in K-12.  
**Resource Type:** Classroom Activities, Curricula and Instruction  
**Grade Level:** K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

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**Surrounded by Science (infographic and educator toolkit)**  
**National Environmental Education Foundation (NEEF)**  
From the front door to the solar system, science can be found everywhere. Explore some of the many ways science connects the world around us. Help increase our understanding of the environment through citizen science. Use the accompanying Surrounded by Science Educator Toolkit to find more free...  
**Resource Type:** Curricula and Instruction, Curriculum Materials  
**Grade Level:** K, 1, 2, 3, 4, 5

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**The Atmospheres of the Solar System**  
**2015, Compound Interest**  
We're heading out of this world to compare atmospheric compositions of the other planets in the solar system, as well as our own. Practically every other planet in our solar system can be considered to have an atmosphere, apart from perhaps the extremely thin, transient atmosphere of Mercury....  
**Resource Type:** Classroom Activities, Curricula and Instruction  
**Grade Level:** 3, 4, 5, 6, 7, 8, 9, 10, 11, 12