Education GeoSource

Everything You Need for Earth Science Education

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Common Rocks Reference
Malcolm Hall
You depend on rocks for many things, so wouldn't it be nice to know more about them? This app provides a starting point for learning about rocks without being a course in geology. A small collection of common rocks is provided with photographs and descriptions. There are five quizzes of...

**Resource Type:** Curricula and Instruction, Curriculum Materials  
**Grade Level:** 5, 6, 7, 8, 9, 10, 11, 12

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Lessons on the Lake: An Educator's Guide to the Pontchartrain Basin
United States Geological Survey (USGS)
An Educator's Guide to the Pontchartrain Basin is to educate students, grades 5-12, about the environmental importance of the Lake Pontchartrain Basin. The guide facilitates instruction for teachers, allows easy access to information on environmental issues surrounding the watershed, and...

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

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Some unanswered questions: What drives the plates?  
United States Geological Survey (USGS)
The tectonic plates do not randomly drift or wander about the Earth's surface; they are driven by definite yet unseen forces. Although scientists can neither precisely describe nor fully understand the forces, most believe that the relatively shallow forces driving the lithospheric plates are...

**Resource Type:** Curricula and Instruction, Curriculum Materials  
**Grade Level:** 9, 10, 11, 12

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Make Your Own Earth and tectonic Globes  
United States Department of the Interior (DOI)
This report contains instructions and two patterns for making a terrestrial globe and a tectonic globe. The pattern or map projection is designed to be glued onto a used tennis ball. The terrestrial globe is intended to help visualize the location of the continents and oceans. The purpose of the...

**Resource Type:** Classroom Activities, Curricula and Instruction  
**Grade Level:** 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Make Your Own Paper Model of a Volcano
United States Department of the Interior (DOI)
This report contains instructions and a pattern for making a 3-D paper model of a volcano. This model is intended to help students and others to visualize a stratovolcano (inside and out) and to learn some of the terms used by geologists in describing it. By constructing and examining the model,...

Resource Type: Classroom Activities, Curricula and Instruction
Grade Level: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Earthquakes
United States Geological Survey (USGS)
This online publication is an excellent overview of earthquakes and includes a lot of good graphics and photos.

Resource Type: Curricula and Instruction, Curriculum Materials
Grade Level: 6, 7, 8, 9, 10, 11, 12

Principal Types of Volcanoes
United States Geological Survey (USGS)
Geologists generally group volcanoes into four main kinds--cinder cones, composite volcanoes, shield volcanoes, and lava domes. Read a more detailed description of the main types of volcanoes. Text includes pictures for each example (but are all in black and white).

Resource Type: Curricula and Instruction, Curriculum Materials
Grade Level: 6, 7, 8, 9, 10, 11, 12

Crinoids: A Paper Model
United States Department of the Interior (DOI)
This report illustrates how crinoids lived and became fossilized. By studying animations and the paper model, students will better understand the flower-like animal that is referred to as a sea-lily and its ocean-floor environment. Included are templates for making the paper model, instructions for...
Make Your Own Paper Fossils
United States Department of the Interior (DOI)
This report illustrates how two organisms, a trilobite and a nautiloid, became fossils. The report is intended to help students and others visualize the size and shape of a trilobite and a nautiloid, the environment in which they lived, and the circumstances of their fossilization and subsequent...

Map Adventures
United States Geological Survey (USGS)
This site contains lessons and teacher information for the Map Adventures activity. Map Adventures, with seven accompanying lessons, is appropriate for grades K-3. Students will learn basic concepts for visualizing objects from different perspectives and how to understand and use maps.

Recently Loaded Resources

Common Misconceptions About States and Changes of Matter and the Water Cycle
Ohio State University (OSU)
Water is a commonly used example of the solid, liquid, and gaseous states of matter. The properties of these states, along with the phase changes between them, are complex and easily misunderstood. The water cycle, too, is a subject with great potential for misconceptions among students and adults...

About Education GeoSource
https://egs.americangeosciences.org
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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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Education GeoSource is generously underwritten in memory of Charles L. Weiner