

Rocks

Rocks are mixtures of one or more minerals. Sedimentary rocks are made of solid, loose pieces of rocks (in the form of sand, silt, clay, and gravel), or the remains of living things found at the surface of the Earth, that over a very long period of time, has become compacted and cemented into sedimentary rock. Igneous rocks come from melted rock material, or magma, that lies beneath Earth's surface. Metamorphic rocks are rocks that have become changed by intense heat or pressure while forming.

Teaching Resources from the Education GeoSource database

Curricula & Instruction Resources



Round Rocks

University of California Museum of Paleontology (UCMP)

Suppose you are given one hour to tell someone about paleontology. The audience is naive but interested. They want to know something about...

Resource Type: Classroom Activities, Curricula and Instruction

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



Rocks and Minerals

National Park Service (NPS)

Students explore a few rocks and minerals of the area. They investigate how sandstone was formed and experiment with erosion to demonstrate how local...

Resource Type: Classroom Activities, Curricula and Instruction

Grade Level: K, 1, 2



[Rock Explorers](#)

Earth Learning Idea (ELI)

As Rock Explorers, students investigate a variety of rocks and sort them into groups. The activity includes opportunities for literacy, numeracy, and...

Resource Type: Classroom Activities, Curricula and Instruction

Grade Level: K, 1, 2, 3, 4, 5



[Rock Chart](#)

American Geosciences Institute (AGI)

Download an English pdf version of a rock chart.

Resource Type: Classroom Activities, Curricula and Instruction

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



[Kids Love Rocks](#)

Cold River Mining Corporation

Welcome to Kids Love Rocks, a rock and mineral website for kids. This educational site is a resource for young rock and mineral collectors, teachers...

Resource Type: Classroom Activities, Curricula and Instruction

Grade Level: K, 1, 2, 3, 4, 5, 6, 7, 8



[K-5 GeoSource: Rocks](#)

American Geosciences Institute (AGI)

Picking up, examining and collecting rocks can be the first steps in moving children toward an appreciation of geology and the "bones" of the...

Resource Type: Classroom Activities, Curricula and Instruction

Grade Level: K, 1, 2, 3, 4, 5



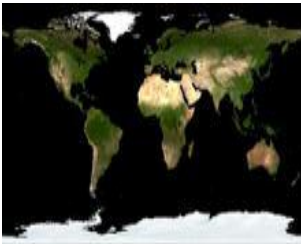
[The rock cycle at your fingertips, Modelling the rock cycle with your fingers](#)

Earth Learning Idea (ELI)

Make learning the rock cycle easy with these finger movements.

Resource Type: Classroom Activities, Curricula and Instruction

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



[One Strange Rock Curriculum Guide](#)

National Geographic

One Strange Rock is a thrilling journey exploring the fragility and wonder of our planet, one of the most peculiar, unique places in the universe. It...

Resource Type: Curricula and Instruction, Curriculum Materials

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



[Volcano World, Chapter 4: Rocks and Minerals](#)

Oregon State University (OSU)

Chapter 4 focuses on rocks and minerals, and looking at types of rocks. Lessons included in this chapter: rocks, minerals, igneous rocks, sedimentary...

Resource Type: Classroom Activities, Curricula and Instruction

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



[The Rock Cycle: Recycling Processes within the Earth System](#)

GeologyCafe.com

This site contains a free, downloadable poster of the rock cycle. The rock cycle illustrates the formation, alteration, destruction, and reformation...

Resource Type: Curricula and Instruction, Curriculum Materials

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

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Teaching Media Resources



[The Geologic Carbon Cycle](#)

Howard Hughes Medical Institute (HHMI)

CO₂ emitted by volcanoes into the atmosphere is removed by a series of chemical reactions related to rock weathering.

Resource Type: Teaching Media, Videos or Animations

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



[One Strange Rock](#)

2018, National Geographic

From award-winning filmmaker Darren Aronofsky comes a mind-bending, thrilling journey that explores the fragility and wonder of planet Earth -- one...

Resource Type: Teaching Media, Videos or Animations

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



[Education Resources Database](#)

Minerals Education Coalition (MEC)

Find audio and videos on minerals, engineering, career fields, and more.

Resource Type: Teaching Media, Videos or Animations

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



[Geology Animations](#)

University of Kentucky (UK)

Several flash animations on physical geology topics. Topics include: rock cycle, mineral properties, weathering, sedimentary rocks, metamorphic rocks...

Resource Type: Teaching Media, Videos or Animations

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



[The Gallery of Virtual Topography](#)

Arizona State University (ASU)

This resource has been around for awhile but it hasn't lost its potential to enrich class discussions on structural geology and geomorphology....

Resource Type: Teaching Media, Videos or Animations

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



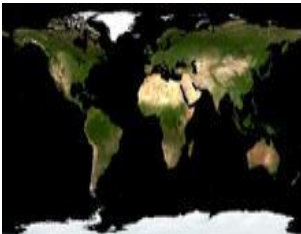
[Animations for Physical Geology](#)

McGraw-Hill

Includes multiple choice, true and false, and matching quizzes. Offers flashcards, Animations and movies, internet exercises, virtual vista, and web...

Resource Type: Teaching Media, Videos or Animations

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



[Cappadocia Mountain Range in Turkey, Middle East](#)

ThousandWonders

Situated in Turkey's Central Anatolia region, Cappadocia is a land of surreal landscapes, rock formations and natural wonders. Tourists come from all...

Resource Type: Image Collections, Teaching Media

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



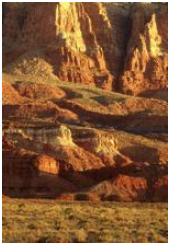
[Why is biodiversity so important?](#)

2015, TED-Ed

Our planet's diverse, thriving ecosystems may seem like permanent fixtures, but they're actually vulnerable to collapse. Jungles can become deserts,...

Resource Type: Teaching Media, Videos or Animations

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



[Visualizing Geology, Arizona Geological Survey](#)

Arizona Geological Survey (AGS)

Photo Gallery from Arizona's Geological Survey

Resource Type: Image Collections, Teaching Media

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



[Space Rocks](#)

National Aeronautics and Space Administration (NASA)

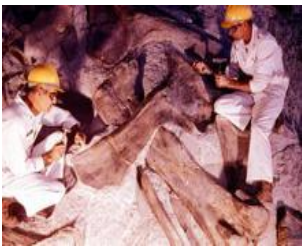
Use this PowerPoint in conjunction with the activities included on the Space Rocks ToolKit or on its own. Talk about our smallest neighbors, their...

Resource Type: Presentations, Teaching Media

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

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Outreach Programs



[Museum of Paleontology](#)

BYU Museum of Paleontology

The BYU Museum of Paleontology was built in 1976 to prepare, display, and house the rock and dinosaur fossils collected by Dr. James A. Jensen and...

Resource Type: Location-based Outreach Programs, Outreach Programs

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



[One Giant Leap: A Moon Odyssey](#)

Chabot Space & Science Center

Want to get behind the controls of the original space roadster (a Mercury space capsule), see just how much rocket it took to put three men on the...

Resource Type: Location-based Outreach Programs, Outreach Programs

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



[Education and Outreach](#)

South Carolina Department of Natural Resources (SCDNR)

Rock and Mineral kits, maps, fact sheets, classroom materials; Location: Columbia, SC

Resource Type: Location-based Outreach Programs, Outreach Programs

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



[Minnesota Geological Survey](#)

University of Minnesota (UM)

Data and maps, research, reports, fact sheets; Location: St. Paul, MN

Resource Type: Online Outreach Programs, Outreach Programs

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



[Earth and Planetary Sciences](#)

American Museum of Natural History (AMNH)

Curates a mineral, gem, meteorite, ore and rocks exhibition, research, seminars; Location: New York, NY

Resource Type: Location-based Outreach Programs, Outreach Programs

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



[Mobile Mining Experience](#)

Mobile Mining Experience

"We proudly offer some of the highest quality fun and educational programs and experiences found or offered anywhere with a single goal in mind..."

Resource Type: Outreach Programs, School-based Outreach Programs

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



[Earth Science Museum](#)

Weis Earth Science Museum (WESM)

The Weis isn't your grandfather's museum full of dusty old glass cases " although we've got some really old stuff here! Imagine a...

Resource Type: Location-based Outreach Programs, Outreach Programs

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



[Museum of Geology](#)

South Dakota School of Mines and Technology

Geology is a fascinating and broad science that incorporates many other sciences! At the Museum of Geology, you'll find many compelling exhibits...

Resource Type: Location-based Outreach Programs, Outreach Programs

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



[Arizona Geological Survey \(AGS\)](#)

Arizona Geological Survey (AGS)

Data and maps, research, reports, fact sheets, newsletters, visualizations, publications; Location: Tucson, AZ

Resource Type: Online Outreach Programs, Outreach Programs

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



[The Sterling Hill Mining Museum: Step into Science](#)

The Sterling Hill Mining Museum

Mine tours, mineral collecting, rocks and fossil exhibits; Location: Ogdensburg, NJ

Resource Type: Location-based Outreach Programs, Outreach Programs

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

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