

Water

In most parts of the world, water is a scarce resource. That might seem strange, because there is so much water on Earth. Almost all of the water on Earth, more than 97 percent of it, is seawater in the oceans. The rest is called fresh water, because it does not have a high salt content. Most of the world's fresh water is frozen solid in large glaciers in Antarctica and Greenland. Almost all of the fresh water that is available for human use is either contained in soil and rock below the surface, called groundwater, or in rivers and lakes.

Teaching Resources from the Education GeoSource database

Curricula & Instruction Resources



Water 2: Disappearing Water

American Association for the Advancement of Science (AAAS)

Students will observe the amount of water in an open container over time, and they will observe the amount of water in a closed container over time....

Resource Type: Classroom Activities, Curricula and Instruction

Grade Level: K, 1, 2



Water Filtration

American Geosciences Institute (AGI)

"Each group will design a water filtration system and present to the class why they picked their design. Students are given a variety of..."

Resource Type: Classroom Activities, Curricula and Instruction

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



[Water Roll](#)

Arizona State University (ASU)

This hands-on SustainABLE activity is meant to promote conversation about how water is distributed and used, and how we can work together to conserve...

Resource Type: Classroom Activities, Curricula and Instruction

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



[Water Footprint Calculator](#)

GRACE Communication Foundation

This calculator helps you estimate your total water use. You know water comes from the tap, but do you know how much water goes into your sandwich?...

Resource Type: Classroom Activities, Curricula and Instruction

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



[WaterSense for Kids](#)

Environmental Protection Agency (EPA)

Thirsty for Knowledge? Let's Learn About Water! Do you know how much water a family of four uses every day in the United States? Not 50 gallons,...

Resource Type: Classroom Activities, Curricula and Instruction

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



[A Tree's Water Cycle](#)

Critical Zone Observatories (CZO)

Students will take a journey as a water molecule moving throughout the tree's water cycle. Students will learn the main parts of the water cycle in...

Resource Type: Classroom Activities, Curricula and Instruction

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



[Water Science for Schools \(Spanish\)](#)

Environmental Protection Agency (EPA)

Welcome to the U.S. Geological Survey (USGS) and EPA website: Water Science for Schools! Here you can find information on many aspects of water, from...

Resource Type: Classroom Activities, Curricula and Instruction

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



[Earth's Water Globe Activity](#)

NASA Global Precipitation Measurement

This interactive lesson uses a blow-up globe and a kinesthetic activity to help participants gain an understanding of how much water is on Earth's...

Resource Type: Classroom Activities, Curricula and Instruction

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



[Water Education Posters](#)

United States Geological Survey (USGS)

Posters on coastal hazards, watersheds, hazardous waste, wetlands, water use, wastewater, navigation, groundwater, and water quality. The posters,...

Resource Type: Curricula and Instruction, Curriculum Materials

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



[Water Science School](#)

United States Geological Survey (USGS)

The USGS provides information on water systems, such as water basics, flooding, coasts, and other topics.

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



[2011 Japan Tsunami](#)

2012, superparkour33

Watch a tsunami hit the shores of Japan and see how it affects the shoreline as the water destroys everything in its path.

Resource Type: Teaching Media, Videos or Animations

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



[3D Interactive Earth Globe](#)

eChalk

This stunning tablet and iPad enabled resource gives you an interactive globe of the Earth with a wide range of geographic, demographic, and...

Resource Type: Maps and Visualizations, Teaching Media

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



[Blue Marble: Next Generation + Topography and Bathymetry](#)

2004, National Aeronautics and Space Administration (NASA)

These satellite maps show different observations made of the Earth under the theme of land, ocean, water, energy, and life. NASA's Blue Marble:...

Resource Type: Teaching Media, Videos or Animations

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



[Clean Water Act: Better at 40](#)

2012, Minnesota Pollution Control Agency (MPCA)

The Clean Water Act turns 40 in October 2012. The Landmark Legislation was a fundamental turning point in the protection of all fresh water in the...

Resource Type: Teaching Media, Videos or Animations

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



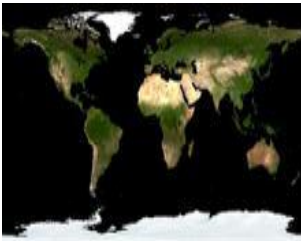
[Coral Reefs 101](#)

2017, National Geographic

What are coral reefs? Coral can be found in tropical ocean waters around the world. But how much do you know about reefs and the tiny animals—polyps—...

Resource Type: Teaching Media, Videos or Animations

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



[CREAT Climate Scenarios Projection Map](#)

Environmental Protection Agency (EPA)

Welcome to EPA's Climate Resilience Evaluation and Awareness Tool (CREAT) Climate Scenarios Projection Map. This map provides easy-to-access...

Resource Type: Maps and Visualizations, Teaching Media

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



[Earth Science World Image Bank: Hydrology Careers](#)

American Geosciences Institute (AGI)

A curated collection of hydrology career images from the Earth Science World Image Bank to show students examples of Earth processes. You can also...

Resource Type: Image Collections, Teaching Media

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



[Earth Science World Image Bank: Ice Storms](#)

American Geosciences Institute (AGI)

A curated collection of ice storm images from the Earth Science World Image Bank to show students examples of Earth processes. You can also download...

Resource Type: Image Collections, Teaching Media

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



[Earth Science World Image Bank: Lakes](#)

American Geosciences Institute (AGI)

A curated collection of lake images from the Earth Science World Image Bank to show students examples of Earth processes. You can also download the...

Resource Type: Image Collections, Teaching Media

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



[Earth Science World Image Bank: Oceans](#)

American Geosciences Institute (AGI)

A curated collection of ocean images from the Earth Science World Image Bank to show students examples of Earth processes. You can also download the...

Resource Type: Image Collections, Teaching Media

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

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Outreach Programs



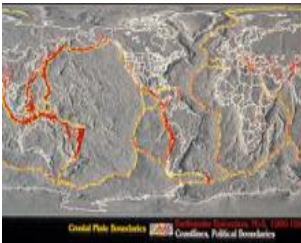
[Hawaii DLNR Maps and Illustrations](#)

Hawaii Department of Land and Natural Resources (DLNR)

Maps on Hawaii's water and geology; Location: Honolulu, Hawaii

Resource Type: Online Outreach Programs, Outreach Programs

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



[Educational Resources](#)

Maryland Geological Survey (MGS)

Maps, factsheets, pamphlets and brochures on Maryland Geology; Location: Baltimore, MD

Resource Type: Online Outreach Programs, Outreach Programs

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



[World Rivers Day \(last Sunday in September\)](#)

World Rivers Day

World Rivers Day is a celebration of the world's waterways. It highlights the many values of our rivers, strives to increase public awareness,...

Resource Type: Commemorative Days and Events, Outreach Programs

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



[World Wetlands Day \(February 2\)](#)

Ramsar

Established to raise awareness about the value of wetlands for humanity and the planet, World Wetlands Day was celebrated for the first time in 1997...

Resource Type: Commemorative Days and Events, Outreach Programs

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



[World Hydrography Day \(June 21\)](#)

International Hydrographic Organization

World Hydrography Day aims to give suitable publicity to its work at all levels and of increasing coverage of hydrographic information on a global...

Resource Type: Commemorative Days and Events, Outreach Programs

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



[International Day for the Conservation of the Mangrove Ecosystem \(July 26\)](#)

United Nations Educational, Scientific and Cultural Organization (UNESCO)

Mangroves are rare, spectacular and prolific ecosystems on the boundary between land and sea. They ensure food security for local communities. They...

Resource Type: Commemorative Days and Events, Outreach Programs

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



[World Oceans Day \(June 8\)](#)

The Ocean Project

A healthy world ocean is critical to our survival. Every year, World Oceans Day provides a unique opportunity to honor, help protect, and conserve...

Resource Type: Commemorative Days and Events, Outreach Programs

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



[Coral Triangle Day \(June 9\)](#)

World Wildlife Fund (WWF)

"The Coral Triangle Day is a massive celebration of the Coral Triangle, the world's epicenter of marine biodiversity, which encompasses the..."

Resource Type: Commemorative Days and Events, Outreach Programs

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



[Geologic Maps of New Jersey](#)

State of New Jersey Department of Environmental Protection Division of Water Supply and Geoscience (NJDEP)

Maps of New Jersey Geology; Location: Trenton, NJ

Resource Type: Online Outreach Programs, Outreach Programs

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



[Home Hobbies: Rock Collecting](#)

HomeAdvisor

If you find rocks interesting, you might like to try rock collecting to help you learn more about rocks and minerals. In fact, you could even learn...

Resource Type: Online Outreach Programs, Outreach Programs

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

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