



National Agriculture in the Classroom supports state agriculture in the classroom programs by providing a network that seeks to improve agricultural literacy awareness, knowledge, and appreciation among PreK-12 teachers and their students. Agriculture in the Classroom (AIRC) programs seek to improve student achievement by applying authentic, agricultural-based content as the context to teach core curriculum concepts in science, social studies, language arts, and nutrition.



Visible Geology is a free web application for teaching and exploring fundamental geology concepts. Scan the QR code to discover Visible Geology and access activities to inspire and educate your students. Get ready to move beyond traditional 2D teaching methods and experience this revolutionary earth science education tool.



Virtual Field Labs (VFLs) are interactive climate investigations that engage students in analyzing and interpreting current climate data. Each series is facilitated by a leading climate scientist and are designed for students ranging from late middle school to college. Curricula are distributed free through YouTube and the U.S. Ice Drilling Program Education Outreach website (www.icedrill-education.org).



TERC, a STEM education research and development nonprofit, is honored to join Earth Science Week in offering valuable resources to foster exploration of the Earth sciences and promote conscientious care for our planet.

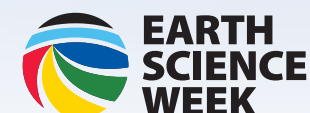
Explore our diverse offerings, including the Signing Earth Science Dictionary tailored for students who are deaf and hard of hearing, EarthLabs' nine modules integrating laboratory components into Earth science courses, an engaging Astrobiology curriculum designed for high school students, the e-book Investigating Science Outdoors for authentic exploration of study sites, Windows on Earth for a unique perspective on our planet from the International Space Station, and much more!



Earth Science Week Partners Resource Page



This new addition to the Earth Science Week toolkit provides access to the educational resources of several participating organizations. We invite you to use the QR codes to visit those resources. View this page online at <https://bit.ly/ESW-2024>



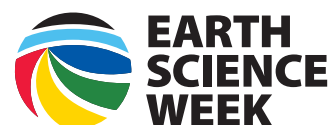


You're invited...to join a polar expedition! Although remote from much of human society, the Polar Regions are facing unprecedented change that will have significant consequences for us all. Scientists are studying and documenting the impacts of climate change and how they are unfolding at an accelerated rate in the Polar Regions compared to other areas of the earth. Whether you are part of an after-school club at school, hybrid learning program, or even as independent adventurer, join our research team!

Data to the Rescue: Penguins Need Our Help! Pack your bags and head off to the Western Antarctic Peninsula, Antarctica with Dr. Megan Cimino. Learn how she is using data to help understand and save the Adélie penguins. Get creative and communicate science with a Data Jam! The program includes an 8-session collection of activities. Includes a downloadable facilitators guide, youth research journal, postcards and more.



RUTGERS-NEW BRUNSWICK
Marine and Coastal Sciences
School of Environmental and Biological Sciences



THE OHIO STATE UNIVERSITY

BYRD POLAR AND CLIMATE
RESEARCH CENTER

The Byrd Center at The Ohio State University undertakes world-leading research, education, and outreach focused on polar and alpine regions, cryospheric processes, reconstruction of past climates, climate variability and change, and the impacts of climate on the environment and society. The center's programs engage diverse audiences in climate resilience, advance learning about polar regions, and share research improving our understanding of the planet. Educators and parents can request a Polar Puzzle kit and download materials at byrd.osu.edu/polar-puzzles. Kits include puzzles to solve and hands-on activities to complete.



The National Park Service has teamed up with the American Geosciences Institute to create a NEW educators guide on volcanoes. The guide contains ten activities that cover a range of topics related to volcanic activity, formations, hazards, and careers. Each activity connects to educational standards and numerous NPS webpages on volcanoes, including many of the 91 parks that contain volcanic resources. The activities also use the UN's Sustainable Development Goals to give context to learning by connecting to sustainability.



Critical Materials Innovation Hub

The Critical Materials Innovation (CMI) Hub is funded by the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Advanced Materials and Manufacturing Technologies Office (AMMTO). CMI seeks to accelerate innovative scientific and technological solutions to develop resilient and secure supply chains for rare-earth metals and other materials critical to the success of clean energy technologies. Recognizing the need for assisting in building the STEM pipeline CMI offers materials for teachers, students, and the public. These include scientifically vetted lessons, information about the CMI outreach tool kit, and a virtual tour of the CMI museum exhibit.



NOURISH THE FUTURE

With over 8 billion people...feeding and fueling the world has never been a bigger challenge. It's EXACTLY the kind of challenge your students should be ready to take on. That's why 6,000+ STEM teachers look for our newsletter each month to help them teach science through the lens of agriculture!

Nourish the Future provides free classroom resources, professional learning, and a one-year fellowship for teacher leaders. Generously sponsored by the National Corn Growers Association and the United Soybean Board. Sign up for free at nourishthefuture.org.



EARTH OBSERVATIONS FOR THE SUSTAINABLE DEVELOPMENT GOALS

EO4SDG organizes and enables the potential of Earth observations and geospatial data to advance the UN 2030 Agenda. A collection of online resources (found at <https://eo4sdg.org/education>) is tailored to educators to help students understand the Sustainable Development Goals, and how Earth observation data illuminates the earth and social science dynamics related to them.

Visit the QR code to play a board game, *Data to Table*, which looks at the different ways climate change affects crops through the lens of data.

