

PROTECT OUR PLANET

SUPPLEMENTAL LEARNING RESOURCES



Protect Our Planet

The air, land, and water around us are changing — and young people are noticing. They're asking questions, making observations, and trying to understand what these changes mean for their world. But knowing what to do with that awareness can be harder. Protect Our Planet, this year's Students Rebuild project, invites young people ages 5–25 to explore the air, land, and water around them and use creativity to share their stories and ideas for a healthier planet.

Through art, writing, performance, photography, digital media, or STEM, students will explore, create, and share. Together, their creativity supports organizations worldwide caring for the air, land, and water we all depend on.

About This Resource

As you engage learners ages 5-11 in the Protect Our Planet Project, check out these curated resources to support their exploration of the air, land, and water around them! As you know the needs of your youth best, please use your own judgment in selecting and adapting these resources to fit what will work best for your group of learners.

All Elements

Age	Resources	Description
2 - 12	Climate Change for Kids-National Science Foundation	SkySci for Kids is the Center for Science Education hub for articles, simulations, classroom activities and media for learners who are ready to know more about how the Earth works.
3 - 18	Educator Tools National Wildlife Federation	The National Wildlife Federation provides the tools and resources you need to bring nature to the classroom including lesson plans, a wildlife guide, webinars, funding ideas and more.
5 - 10	Elementary GLOBE learning modules	Using a storybook approach, GLOBE modules utilize a science-based, fictional narrative to engage students in the scientific method. The modules also challenge them to extend their lessons into the natural world through observation and measurement of their surrounding environment.
5 - 11	Human Impact on the Environment	This teacher resource from PBS learning media for teachers provides short, engaging videos for younger students to see the role that they themselves play in protecting our environment.
5 - 11	The Nature Conservancy: Youth Education Resources	The Nature Conservancy and its 550 scientists have created Nature Lab to help students learn the science behind how nature works for us and how we can help preserve it.
8 - 10	National Geographic Curriculum	This resource from National Geographic contains curriculums and classroom activities educators can use to learn about energy use, climate change, coastal populations, coral reefs, CO2 emissions and global warming.

Air

Age	Resources	Description
4+	AirNow.gov : Air Quality Resources For Teachers AirNow.gov	This teacher resource from PBS learning media for teachers provides short, engaging videos for younger students to see the role that they themselves play in protecting our environment.
5+	Learning and Teaching about the Environment US EPA	An array of environmental and science based lesson plans, activities and ideas below from EPA, other federal agencies and external organizations. Includes classroom resources and project ideas for teachers, as well as homework help on environmental topics for students.
5 - 10	GLOBE program: Air Quality Module	In this story-based module, students will investigate how air pollution alters the sky's color, create models to show how aerosols influence visibility, and use prisms to explore different light properties.

Land

Age	Resources	Description
5 - 10	Land Pollution for Kids	This resource provides engaging yet simple, hands-on activities and projects that help kids explore what happens to waste and how land pollution affects the world around them.
5+	NWF Green Hour	Each week, the National Wildlife Federation provides two new activities to get youth having fun experiences outside! Each activity can be completed in 15 or 30 minute segments, but it is best to spend a Green Hour®.

Water

Age	Resources	Description
5+	Smithsonian Ocean Portal Educators' Corner Smithsonian Ocean	Students can explore the ocean virtually via the National Smithsonian Museum of Natural History website, which features an Educators' Corner with featured activities and lesson plans to bring the ocean to life for learners.
5+	Ocean Literacy Scope and Sequence for Grades K–12	An instructional tool from the National Marine Educator's Association geared to help students understand the ocean in ever more complex ways across years of thoughtful, coherent science instruction.
5 - 10	GLOBE Program: Water Module	In this story-based module, students will learn how scientists use macroinvertebrates to study water quality, know how to take measurements with scientific tools and how to apply their measurements to a scientific investigation.
5 - 10	Paper Plate Fish Lesson	This 30-minute lesson from MOOREA Coral Reef LTER Education is a fun, basic craft and can be adapted to incorporate structure and function lessons in a classroom setting. Students will build their own fish from a paper plate, decorate it, and learn about the function of each of their fish's fins in the process.

