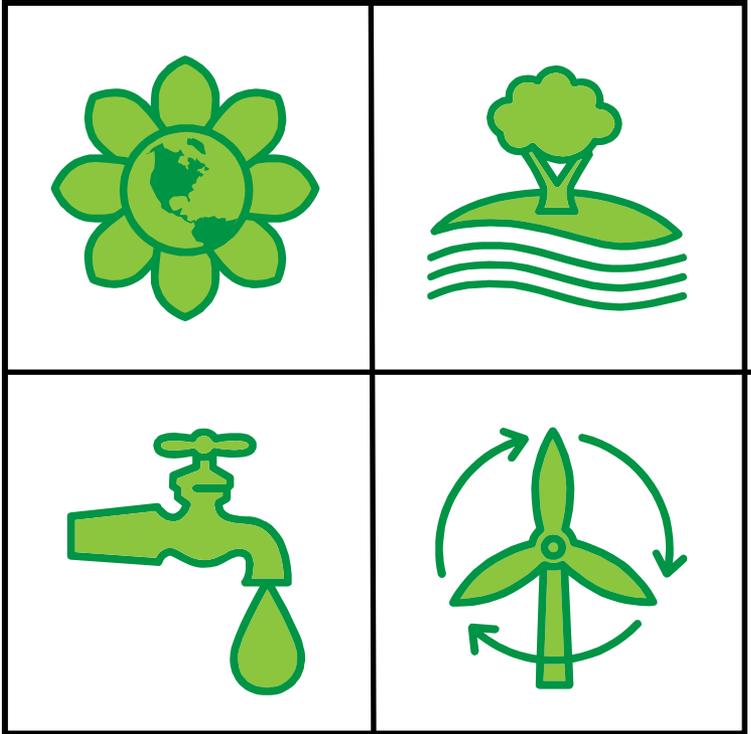


Conservation Advocates



A guide to conservation
programs for grades
7 through 12



Educational programs from the Brown County Soil and Water Conservation District (SWCD) are offered **FREE** to Brown County school districts, libraries, and community organizations.

The programs and activities listed in this brochure are each designed for the needs of the Middle School & High School teacher, as well as the development of the 7th to 12th grade student. Every program offered has been correlated to Ohio's New Learning Standards adopted by the Ohio Board of Education for implementation in 2014.

Topics cover a wide range of environmental and conservation issues. With the progression into the middle school and high school grades the topics focus on the interconnections that occur in nature. The goal is provide a depth of understanding not previously achieved at the lower grade levels. We also begin to explore connections to the social, cultural and political constructs that influence environmental decisions.



7th Grade

Incredible Journey

Through this active simulation students will assume the role of a water molecule moving through the water cycle. Students will be able to describe the states of water as it moves through the cycle.

ESS—The hydrologic cycle illustrates the changing states of water as it moves through the lithosphere, biosphere, hydrosphere and atmosphere.

Groundwater Model

See what's happening below the grounds' surface with this demonstration. The focus will be how water underground flows naturally and the potential affects of human actions.

ESS—The hydrologic cycle illustrates the changing states of water as it moves through the lithosphere, biosphere, hydrosphere and atmosphere.

Moondance



Explore the relationship between the Earth, sun and moon with emphasis placed on moon phases. Brief review of rotation, revolution, eclipses, etc. will be included.

ESS—The relative patterns of motion and positions of the Earth, moon and sun cause solar and lunar eclipses, tides and phases of the moon.



8th Grade

Bottleneck Genes

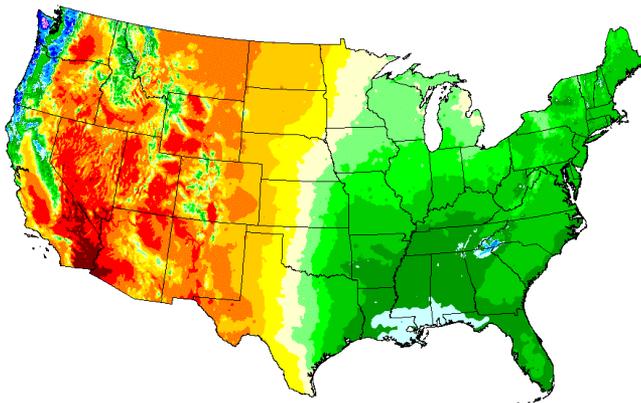
Biodiversity within wildlife populations is essential to the survival of a species. This activity reviews how the size of a population can impact gene diversity.

LS—Diversity of species occurs through gradual processes over many generations. Fossils records provide evidence that changes have occurred in number and types of species.

Pass the Jug!

Water is a prime example of the unequal distribution of natural resources in the United States. Explore America's water resources and how we address the need for this vital resource.

SS—GEO—The availability of natural resources contributed to the geographic and economic expansion of the United States, sometimes resulting in unintended environmental consequences.



High School

The High School programs are organized by class topic. Brown County SWCD can offer presentations related to the following:

Environmental Science

- * Earth Systems - Biodiversity and Ecosystems
- * Earth's Resources - Resource Availability, Water Pollution, Soil & Sediment, Solid Waste and Wildlife Management
- * Global Environmental Problems/Issues - Human Population, Sustainability and Food Production & Availability

American History

- * Social Transformations - Role of Government in Environmental Protection

Modern World History

- * Globalization - Population Growth and Sustainability

Contemporary World History

- * Sustainability - Humans Needs & Consequences
- * Environment and Society - Human Modifications of the Environment





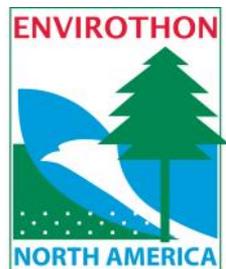
ENVIROTHON

The Envirothon is a High School student competition assessing students' knowledge of soils, forestry, wildlife, aquatic ecology and current environmental issues. In addition, the Envirothon encourages cooperative decision-making and team building. While each student on an Envirothon team is challenged to contribute his or her personal best, the score that counts at the end of an Envirothon is the team score.

A team consists of five students, all from the same high school. An adult advisor (or advisors) must accompany the team, but is not permitted to assist the team during the competition.

Five "Area Envirothons" are conducted around Ohio late each spring. The top four teams from each of these Area competitions progress to the Ohio Envirothon in June. The state level Ohio Envirothon is held in a different part of Ohio each year. The top-scoring team in the Ohio Envirothon is eligible to compete in the [North American Envirothon](#), hosted by a different state or Canadian province every year.

In Ohio, the Envirothon is sponsored by the Ohio Federation of Soil and Water Conservation Districts (OFSWCD) in cooperation with the Ohio Department of Natural Resources (ODNR). Locally, the Brown County SWCD coordinates teams. Call Danielle for more information!



ADDITIONAL RESOURCES

Looking for new environmental materials? You may want to check out the following....

- www.wildohio.com - This Ohio Division of Wildlife website has educator resources and information on upcoming teacher workshops
- <http://soils.usda.gov/education/> - The Natural Resources Conservation Service has provided information and links to additional organizations with great soil/rock resources.
- www.projectwet.org - The Project WET curricula can be obtained through workshops across the state. Check out the great materials available.
- www.plt.org - Project Learning Tree is a multi-disciplinary program from the American Forest Foundation. You can explore topics beyond the forest including wildlife, water, waste management and energy.
- www.cas.muohio.edu/scienceforohio - The Science for Ohio project is an initiative from Miami University. You will find inquiry lessons ready-to-use in your classroom with excellent reference resources.

**Interested in a
program?**



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