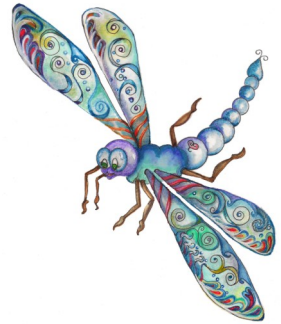




# Free Classroom Programs

## Kindergarten

- Free to Warren County Schools
- Correlated to state science standards
- Interactive, hands-on and fun!
- Two programs can be scheduled per grade level each school year based on availability
- Programs can be scheduled individually or by entire grade level (presenters can present 1 to 5 days per program dependent on the number of participating classrooms)
- Programs are around 30 to 40 minutes (age-appropriate)



All programs and services are offered on a non-discriminatory basis without regard to race, color, national origin, religion, sex, age, disability, marital or family status, or political beliefs. Warren County Soil and Water Conservation District is not responsible for rescheduling any canceled programs.

### Warren County Soil and Water Conservation District

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# Free Classroom Programs Kindergarten

## Fred the Fish

**Learning Objective:** Fish live in the stream and need clean water.

**Activity:** Journey with Fred down the river and see how pollution can harm his home.

## Bob and Otto

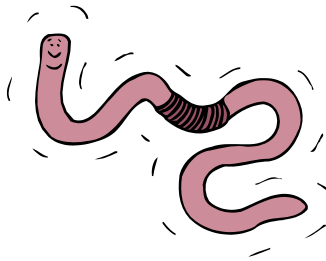
**Learning Objective:** Worms are alive, live in the soil, eat decaying leaves, and help plants grow.

**Activity:** Students are read a book and then get to visit with some live worms.

## Dress like a Beaver

**Learning Objective:** Students learn about busy beavers.

**Activity:** Learn about a beaver's habitat and adaptations by dressing like a beaver.



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## Free Classroom Programs First and Second Grade

- Free to Warren County Schools
- Correlated to state science standards
- Interactive, hands-on and fun!
- Two programs can be scheduled per grade level each school year based on availability
- Programs can be scheduled individually or by entire grade level (presenters can present 1 to 5 days per program dependent on the number of participating



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# Free Classroom Programs- First and Second Grade

## Grade 1

**How Many Bears Can live in this Forest?** **Learning Objective:** Living things have basic needs; humans and seasonal change can impact the availability of resources.

**Activity:** Learn about bears by playing a game where students must find their food!

**Ohio Habitats** **Learning Objective:** Living things interact with their physical environment.

**Activity:** Students will learn Ohio's habitats and will place animals in their rightful habitat.

**Gobble Gobble** **Learning Objective:** Living things have certain characteristics and use body parts to seek resources.

**Activity:** Students learn about a turkey's habitat, predators, and make a turkey call.

**Henry the Great Blue Heron** **Learning Objective:** Living things have certain characteristics and use body parts to seek resources.

**Activity:** Henry the Impatient Heron is read and students learn about beak adaptations in birds.

## Grade 2

**Water Cycle Game (Large space recommended)** **Learning Objective:** Water moves in a continuous cycle; students relate terms with properties of water.

**Activity:** Students map their journey in the water cycle with beads.

**Fossils** **Learning Objective:** Some kinds of individuals that once lived on Earth have completely disappeared.

**Activity:** Observe fossils from rock layers and make a fossil imprint to take home.

**Wiggling Worms** **Learning Objective:** Earthworms cause changes to the soil which impacts other living things.

**Activity:** Students make observations about live earthworms.

**Beaver Builders** **Learning Objective:** Students learn about nature's best engineer, the American beaver.

**Activity:** Learn about physical and behavioral adaptations of beavers, and how they change their environment.



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# Free Classroom Programs

## Third Grade

- Free to Warren County Schools
- Correlated to state science standards
- Interactive, hands-on and fun!
- Two programs can be scheduled per grade level each school year based on availability
- Programs can be scheduled individually or by entire grade level (presenters can present 1 to 5 days per program dependent on the number of participating classrooms)
- Classroom programs are around 30 to 45 minutes



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## Free Classroom Programs – Third Grade

**Soil Ingredients Learning Objective:** Students learn that Earth's non-living resources have specific properties.

**Activity:** Students investigate soil particles and learn about the composition of soil by making their own soil play dough to take home.

**Geology Stations Learning Objective:** Rocks have unique characteristics.

**Activity:** Students are given rocks and must determine which type of rocks they have.

**Toil for Oil Learning Objective:** Explore Ohio's renewable vs. nonrenewable resources and relate to conserving our limited resources that are used for energy.

**Activity:** Students experience the increasing difficulty of extracting a limited, nonrenewable resource over several years and will consider and discuss renewable energy sources.

**No Water off a Duck's Back Learning Objective:** Oil is in many products that we need and use. Oil spills occur often with the transportation and drilling for this natural resource.

**Activity:** Students learn about how dependent we are on this resource and how much is available. They also have to clean up an oil spill.

**Buzzy, Buzzy Bee Learning Objective:** Learn about life cycles as well as physical and behavioral traits of organisms.

**Activity:** Be reacquainted with a famous pollinator, why we need them, and play a bee game.

### Animal and Plant Addresses

**Learning Objective:** Plants and animals have physical features that they associate with the environments in which they live.

**Activity:** Students compete by guessing an animal based on life cycle and adaptations clues.



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# Free Classroom Programs

## Fourth Grade

- Free to Warren County Schools
- Correlated to state science standards
- Interactive, hands-on and fun!
- Two programs can be scheduled per grade level each school year based on availability
- Programs can be scheduled individually or by entire grade level (presenters can present 1 to 5 days per program dependent on the number of participating classrooms)
- Classroom programs are around 30 to 45 minutes



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## Free Classroom Programs– Fourth Grade

**Stream Ecosystem Learning Objective:** Insects found or not found in the stream are water quality indicators. **Activity:** Students learn about how they impact water quality by finding insects in a simulated stream.

**Erosion/Stream Table (needs lab space) Learning Objective:** Geologic processes affect change on the Earth's surface.

**Activity:** A *Riverlab* stream model is used to illustrate different erosion and deposition processes on a natural landscape. ***This may also be borrowed.***

**Earth Formations Learning Objective:** Environmental changes, like weathering or erosion, can be constructive, destructive or even neutral.

**Activity:** Students visit five stations and conduct erosion, weathering, physical and/or chemical change experiments.

**Topographic Maps Learning Objective:** Learn about geologic history, including processes like glacial movement that changed the Earth's surface.

**Activity:** Students analyze a topographic map of their school's location and conduct an activity with contour lines.

**Fossils Learning Objective:** Fossils provide a point of comparison between the types of organisms that lived long ago and those that exist today.

**Activity:** Observe fossils from rock layers and make a fossil imprint as well as keep a cast fossil.

### Here Today Gone Tomorrow

**Learning Objective:** Learn about the life of Ohio animals that have disappeared, are endangered or threatened. **Activity:** Students will learn about animals that are in trouble and get to touch some animal skins. (In the fall, we can focus on bats.)



**Fishing for the Future Learning Objective:** Students learn that humans can cause rapid change to ecosystems through over fishing.

**Activity:** Students will do an activity that shows them the consequence of overfishing.

**Turtle Hurdles (large space needed) Learning Objective:** Ecosystems can change gradually or dramatically as with adaptations of sea turtles.

**Activity:** Students will learn about sea turtles then play a game to see that there are many things that can affect the sea turtle's survival.



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## Free Classroom Programs Fifth and Sixth

- Free to Warren County Schools
- Correlated to state science standards
- Interactive, hands-on and fun!
- Two programs can be scheduled per grade level each school year, based on availability
- Programs last approximately 40 minutes.
- Programs can be scheduled individually or by entire grade level (presenters can present 1 to 5 days per program dependent on the number of participating classrooms)



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# Free Classroom Programs– Fifth and Sixth Grade

## Grade 5

**Decomposers Learning Objective:** Students learn about the decomposer food chain. **Activity:** Students discover nature’s sanitation crews and why they are important. Students will also get to take a look at some composting worms that are hard at work.

**Energy Pipeline Learning Objective:** Energy flows through the ecosystem in one direction from plants to decomposers. **Activity:** Students play a game that demonstrates the interactions of organisms resulting in the flow of energy throughout ecosystems.

**Shop Till You Drop! Learning Objective:** Choices people make have both present and future consequences. **Activity:** Students experience how resources are distributed and used by different people based on access to wealth. Then, they will discuss solutions to address the environmental impacts and to help alleviate poverty.

## Grade 6

**Soil Computer Lab Learning Objective:** Students learn about mapping soils by using the Web Soil Survey to access geological and properties of soil types. **Activity:** Students learn about soil types around them, reasons to study soil, and become scientists by mapping soil with the on-line Web Soil Survey.

**Soil Testing Learning Objective:** Students use a dichotomous key to test soil. **Activity:** Students become soil scientists by investigating and testing soil properties with a dichotomous key.

**Soil Layers Learning Objective:** Investigate the different soil horizons while comparing the mineral composition; realize our need for soil conservation. **Activity:** Students focus on the layers found in soil and glue soil horizons on a card to take home.

**Rock Cycle Game Learning Objective:** Rocks form in different ways and have specific properties. **Activity:** Students become minerals in the rock cycle and learn about everyday uses of rocks and minerals.

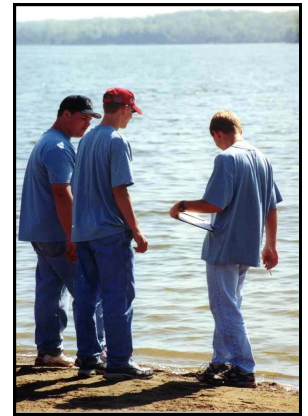


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## Free Classroom Programs 7th and 8th Grade

- Free to Warren County Schools
- Correlated to state science standards
- Interactive, hands-on and fun!
- Two programs can be scheduled per grade level each school year based on availability
- Programs can be scheduled individually or by entire grade level (presenters can present 1 to 5 days per program dependent on the number of participating classrooms)



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# Free Classroom Programs– Seventh and Eighth Grade

## Grade 7

**Hydrological Cycle Game Learning Objective:** Students learn about the hydraulic cycle, pollution, and problems as pollution can move through the water cycle. **Activity:** Students map their journey in the water cycle with beads and learn about water quality issues that are happening around Ohio.

**Groundwater Model Learning Objective:** Water is collected, stored and removed in groundwater as well as pollution that can contaminate water. **Activity:** A groundwater model is used to show how water flows through rock and what can contaminate the water.

**Stream Field Trip Learning Objective:** Students learn about water quality by doing the following tests: pH, phosphate, nitrate, and macroinvertebrate collecting. **Activity:** Students walk (or are bused) to a local stream to do water quality testing.

**Topographic Maps Learning Objective:** Learn about geologic history, including processes like glacial movement that changed the Earth's surface. **Activity:** Students analyze a topographic map of their school's location and conduct an activity with contour lines.

## Grade 8

**Sink Hole in a Cup Learning Objective:** Students learn about karst formations and sinkholes. **Activity:** Students make sinkholes and monitor changes.

**Geology Table Learning Objective:** Students learn about different geological process and how a combination of constructive and destructive processes shape Earth's surface. **Activity:** Students observe geological formations through an interactive sand table.

**Bottleneck Genes Learning Objective:** Students learn about genetic diversity within a population. **Activity:** Students do an activity calculating genetic diversity in a population and track changes in that population.



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# Free High School Programs

***Are you looking for a natural resource presenter or project?***  
**We can come to your classroom to present the following:**

- Water quality
- Watershed Protection
- Watershed Issues in Ohio (hypoxia, eutrophication)
- Ground Water
- Soil/Erosion
- Land use and Land Management
- Ohio Wildlife
- Sustainability
- Environmental Issues
- Topographic Maps
- Composting



## Community Service Hours

**Students can earn community service hours in the following projects:**

- Storm drain Tagging
- Stream Clean-Ups
- Environmental Education Volunteer –assist staff with local events with kids crafts/programs/and booths

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# High School Envirothon Competition



The **ENVIROTHON** is designed to stimulate, reinforce and enhance interest in the environment and natural resources among high school students. Students use critical thinking skills and compete against other schools on the following subjects: **soils, forestry, wildlife, aquatic ecology and current environmental issues (CEI)**. In addition, the Envirothon encourages cooperative decision-making and team building.

[www.areaenvirothon.org](http://www.areaenvirothon.org)

## Scholarships

Every year the Warren County Soil and Water Conservation District Board of Supervisors sponsor two scholarship programs. High school seniors can apply for a \$500 scholarship. High school students can also apply to receive a Forestry and Wildlife Camp Scholarship.



## Rain Barrel Painting Program

The Saving Rain for A Sunny Day rain barrel painting program is designed for students to partner with the WCSWCD, The Cincinnati Zoo and [savinglocalwaters.org](http://savinglocalwaters.org) and artfully bring awareness to protecting our local streams and waterways.

For more information on the Envirothon, scholarship programs or scheduling a speaker contact:

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