



# SCHOOL EDUCATION PROGRAMS



A program can be created to meet specific classroom needs.

**Contact the Muskingum SWCD for education programs:**

**Muskingum Soil and Water Conservation District**  
225 Underwood Street, Suite 100  
Zanesville, OH 43701-3784  
Phone (740) 454-2027

Email:  
nicole.hafer@muskingumswcd.org

**All programs are free.**

## School Program Cancellation Policy

On days when your school closes due to weather, power outage, etc. and I am scheduled to present to your classes, I will make every attempt to reschedule for another date. It is very likely, however that as the winter progresses, the days I have set aside for "make up" program days will become filled. If that happens, I will not be able to reschedule your presentation. I apologize for this in advance, but as many of you know my schedule fills up very quickly.

*Nicole Hafer, Education Specialist*

Our Education Specialist, Nicole Hafer, is available for the school year to present hands-on activities to Muskingum County classrooms free of charge. All programs meet Academic Content Standards for Science grades K-12.

Our office has a variety of resources available to teachers to help supplement the curriculum. We offer a variety of publications and fact sheets as well as many great ideas for bringing nature into your classroom.

Contact Education Specialist Nicole Hafer @ 454-2027 to schedule classroom programs or for assistance enhancing your current curriculum.



MUSKINGUM SOIL AND WATER CONSERVATION DISTRICT

# CLASSROOM PRESENTATION TOPICS



**Muskingum Soil and Water Conservation District**

225 Underwood Street, Suite 100

Zanesville, OH 43701-3784

Phone (740) 454-2027

Fax (740) 454-1451

Website: [www.muskingumswcd.org](http://www.muskingumswcd.org)

Facebook: [www.facebook.com/MuskingumSWCD](https://www.facebook.com/MuskingumSWCD)

## Classroom Presentation Topics

### **New!! Geology Program (Grades 7-12)**

Contact Nicole Hafer, Education Specialist

### **New!! Stream Monitoring Program (Grades 7-12)**

Contact Nicole Hafer, Education Specialist

**Earthworms! (Grades Pre-K-3)** In this presentation students learn about the fascinating life of the earthworm and visit with Squrmin' Herman, our six foot long earthworm friend. Activities include observation of live earthworm behavior and a great worm story!

**Monarch Madness (Grades 1-4)** Students learn about the amazing life journey of the Monarch butterfly. This presentation includes information on the life cycle, life history and migration of this amazing insect.



### **Reptiles and Amphibians**

**(Grades 1-6)** Discover the wonders of these groups of animals and the role they play in a healthy ecosystem. This program also discusses their declining population worldwide and the importance of biodiversity. Live animals are utilized during this presentation.

### **Our Ohio Mammals (Grades 2-5)**

Students learn about the life histories of many common Ohio mammals by examining their skulls, fur and tracks.

**Fall Forestry (Grades 3-5)** Learn why leaves change colors and how trees prepare for winter. Students also learn how to identify several common Ohio tree species by their branch arrangement and how to use a dichotomous key.



### **Watersheds and the Water Cycle**

**(Grades 3-6)** Students become water molecules and go on an incredible journey through the water cycle. They record their journey and identify the states of water while on their journey.

### **Soils with Weathering and Erosion (Grades 3-6)**

This program was developed to meet the Science Content Standards' third grade soil requirement. Students learn about soil composition, formation and the importance of soil conservation.



### **Insects 101, The Basics of Bugs!**

**(Grades 3-6)** Discover the amazing world of insects, from their life cycles to their role in the food web. Learn about their incredible adaptations and ability to live everywhere on Earth. Live insects included on a seasonal basis.

### **Enviroscape Demonstration (Grades 3-9)**

A land use model of a watershed demonstrating the effects of the surrounding land use on water quality. Students learn about non-point source pollution and the best methods to manage our land so as to protect our water resources.

### **Go Green with Recycling (Grades 3-12)**

Learn about the importance of recycling, what items can be recycled, and how we can all help reduce the human impact on our environment. The content has been expanded to include curriculum through 12th grade. This presentation is ideal to help students understand human impacts on the environment. We discuss waste disposal, the associated problems and solutions for the future.



### **Food Webs and Forest Ecology**

**(Grades 4-6)** This presentation meets academic content standards for life sciences in the 5th grade. Students experience the interdependence of plants and animals in a forest ecosystem and how living things adapt to changes in their environment.

**Changing the Land (Grade 4-8)** Students compare historical aerial photographs with current aerial photographs to determine what factors influence land use decisions, the impact of different land uses in an area and future changes in land use and their effects.

**Soil Ecology (Grades 5-10)** In this presentation, students examine the life under their feet, compare soil ecosystems to other ecosystems and learn about the complex relationship among soil organisms. The presentation can be scheduled in the fall or spring when the ground is not frozen!

**Forest Forensics (Grades 9-12)** Students will use several methods of data collection to discover that a forest is a complex, dynamic and constantly changing ecosystem. Access to a wooded area on school grounds is needed for high school students to get the most out of this program.

**Biodiversity in Ecosystems (Grades 9-12)** This presentation is designed for students to discover the interconnectedness of all components in an ecosystem. Students will be able to define carrying capacity and limiting factors and how they relate to population fluctuations. They will also discover how environmental factors affect heredity and the impact of non-native species in an ecosystem.

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