

### Trees are TREEmendous!

There are so many things that trees provide, but often overlooked are their contributions to clean water and healthy soil! Let's take a closer look at these planet "superheroes" and learn to identify some of Ohio's common tree species.

### Caterpillar Spring Butterfly Summer \*

Not only are beautiful butterflies vitally linked to native plants, but their caterpillar larvae also play a critical role in the food web. Join us for a caterpillar's journey munching through spring to develop summertime wings. We'll discover the fascinating world of butterflies and their changes through metamorphosis.

### Wildlife in Winter \*

Let it snow, let it snow, but where did all the animals go?! We will become wildlife detectives and find out how our native Ohio critters survive when Old Man winter arrives!

### "Pond"ering Signs Left Behind \*

Who made this track in the mud? What's under this rock? Did you hear that splash? We'll discover many fascinating aquatic creatures as we investigate the wonderful world of life in and around the pond.

### What's Under Your Feet? Groundwater!

Gain a "deeper" understanding of groundwater and its importance. Through activities and demonstrations with a groundwater model, students explore the movement of water as it travels through layers below the land's surface, along with strategies to protect our underground water reserves.

### Stormwater Stewards

As our communities sprawl, these land use and landscape changes have resulted in more flooding, erosion, and water pollution challenges. Students will investigate how development alters the quantity and quality of stormwater runoff, explore methods to minimize pollutants, and compare stormwater management practices.

## Other Offerings... The Loan Zone

Geauga SWCD has a variety of resources available to teachers and educators to help supplement your curriculum. Items may be borrowed for up to two weeks and some materials require a refundable deposit.

### Available resources include:

- Curriculum Guides and Activity Books
- Envirothon Resource Bin  
(available for all educators)
- Wildlife Treasures Trunk  
(provided by ODNR Division of Wildlife)
- Bat Trunk  
(provided by ODNR Division of Wildlife)
- Stormwater Banners
- DVDs, Field Guides and Posters
- Children's Books
- Displays, Models, and Equipment
- Stormwater Banners

### Additional Conservation Opportunities

- \* Envirothon Competitions
  - \* Soil to Spoon Workshop
  - \* "Watershed Ripples" Newsletter
  - \* Wonders of Watersheds
- Teacher Workshops for Graduate Credit
- \* Annual Conservation Poster Contest
  - \* Forestry Camp Scholarships
  - \* Teacher of the Year Contest

"To conserve, protect, and enhance the resources of Geauga County by providing leadership, education, and assistance to all."

## CONSERVATION EDUCATION PROGRAMS



## Geauga Soil and Water Conservation District

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## Classroom Conservation

The Geauga Soil and Water Conservation District offers a wide variety of environmental education programs at no cost to any school, club, or organization in Geauga County. For Pre-K through High School, these programs can be tailored to meet any specific grade, topic, or class size. An asterisk (\*) denotes programs adaptable for very young children.

Our programs are:

- Approximately one hour in length, however can be modified.
- Designed to reinforce Ohio's Academic Science Standards
- Hands-on, interactive, and fun
- Free of charge!

For more information or to schedule a program, please contact Gail Prunty at 440.834.1122 ext. 8023 or [gprunty@geaugaswcd.com](mailto:gprunty@geaugaswcd.com).

### Soil Sleuths

More than just dirt, soil is a vital resource that sustains life! In this enlightening program students will investigate soil, its properties, and functions. Through activities and demonstrations we'll discover how soil is formed, what lives in it, and ways we can protect it.

### Beneficial Bats! \*

What can eat countless insects, plant trees, disperse seeds, and pollinate plants? BATS! Every night these fascinating flyers act as unseen gardeners doing jobs that are vital to healthy ecosystems and economies. Learn about bat behaviors and adaptations as well as what threatens their survival. Through games and activities, we'll dispel myths while gaining a better understanding of these magnificent nocturnal mammals.

### Wildlife Detectives \*

Ohio is home to many fascinating creatures! By investigating fur, skulls, tracks, and clues, students will use their detective skills to identify and classify some of Ohio's wildlife. We'll explore the unique adaptations that our native animals use to thrive and survive.

### Freddie The Fish \*

Let Freddie the Fish give your students a fisheye view of how our actions on land affects the quality of our water. Participants will follow Freddie downstream to gain an understanding of the importance of clean water, the impacts pollution has on aquatic life, and how we can protect our water quality.

### Buggin' Out! \*

In this interactive program, we'll look closely at the amazing world of insects from their life cycles to their role in the food web. Students will learn some "bug basics" including their characteristics and incredible adaptations which enable them to live everywhere on earth! If time allows, we'll go on a search for these critical critters!

### Incredible Journey \*

Come along on a water cycle adventure! Students will become water molecules that embark on an incredible journey. Through fun activities, we'll explore the complexity and importance of the water cycle and identify ways to conserve and protect the freshwater resources on which we depend.

### Soil to Spoon

Discover Geauga County and its rich agricultural history. Find out how far your food traveled and why local is better. Students will unearth the importance of healthy soil equaling healthy food. A special visit with a local Geauga County farmer will help students understand an average day on a farm and the importance of supporting and buying local.

### Stream Team Detectives

This presentation utilizes the Streamulator, a table model which demonstrates stream systems, how they function, and the effects that humans can have on stream quality. Stream formation, bank erosion, deposition, and land use issues are concepts covered. Due to the extensive setup/teardown requirements of this model, certain stipulations exist for this program.

### Pond Exploration

Do you have a pond near your school? Let's "jump in" and take a closer look at ponds as important ecosystems. We'll explore some of the fascinating organisms and aquatic plants within a pond community.

### Stream Quality Monitoring

Learn about stream ecology while analyzing the health of Geauga County's streams and rivers. By using kick seines and equipment, macroinvertebrates are collected and identified to determine water quality. Chemical tests are also performed for pH, temperature, dissolved oxygen, and turbidity.

### Where Does Your Watershed?

Gain an understanding of watersheds and how humans impact water quality through an Enviroscape adventure! This interactive landscape model demonstrates point and nonpoint source pollutants and their impact to our streams and lakes. Students see firsthand the sources of water pollution within a community, then identify practices that protect and preserve our clean water resources.

### Web of life

Is everything really connected to everything else? Discover the interdependency of plants, animals, and humans through this exciting and interactive program. We'll explore food chains, food webs, and the energy cycle!