

**Lancaster County Conservation District Education Programs
2011-2012 School Year
Sallie Gregory, Education Coordinator 717-299-5361 x. 117**

NEW EMAIL new email NEW EMAIL
salliegregory@lancasterconservation.org

Who We Are...

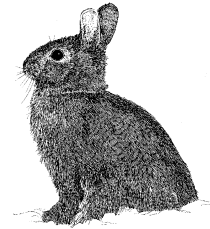
The mission of the Lancaster County Conservation District is the stewardship of land, water, and other natural resources. The District administers and participates in a variety of programs to protect and promote the wise use of natural resources.

About the Programs...

The programs in this guide are available to Lancaster County students and residents. All of the programs are designed to address the PA Department of Education Environment and Ecology Standards (see last page). Each program can be individually tailored to meet your needs. The majority of programs focus on soil and water conservation issues in keeping with the mission of the Lancaster County Conservation District. If you do not see a topic in the guide that you would like offered, please contact the education coordinator to discuss the possibility of creating a program.

To Schedule a Program...

To schedule a program, contact the education coordinator. Unless special arrangements are made, programs are offered Monday through Friday, 8 AM – 4 PM. *Before emailing or phoning, please have several dates and times in mind.* Please notify us immediately to postpone or cancel the program.



Program Costs...

A nominal donation is requested which assists with program development.

\$45/hr up to an hour

\$10/hr for each additional program hour

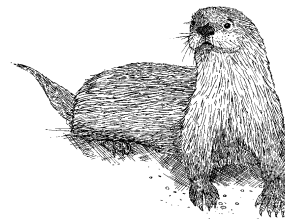
- Additional fee for special materials, i.e. owl pellets (\$2.35).

3 Programs for FREE: In the tradition of promoting soil and water stewardship the following programs will remain at no cost – *The Dirt on Soil, Stream Study, and the Watershed Enviroscope.*

About this Guide...

Program descriptions are listed on the following pages. To the side of each description is a key that gives the following information...

- Indicates the program is indoor, outdoor, or either
- Appropriate grade level
- Time required
- Type of program



Animals in Winter

Indoor
Gr. K - Adult
40 – 60 min.
Hands-on

Animals survive winter by hibernating, migrating, or staying active. Learn their specific adaptations with study skins and animal artifacts (antlers, skulls, etc.). Literature connection included for elementary.



Awesome Owls

Indoor
Gr. 3 – Adult
40 - 60 min.
Hands-on

What makes owls so interesting? Learn their habits, behaviors, and tear apart an owl pellet to discover the bones inside. Literature connection included for elementary. Cost per pellet, \$2.40. Students often work in pairs to investigate pellets.

Be a Tweet Sleuth

Indoor
Gr. K – Adult
40 - 60 min.
Slides or Hands-on

The comeback of the bluebirds is one example of positive backyard conservation. View a slideshow that shares the story of the bluebird nest box. OR Participate in activities that explain bird adaptations and behavior.

Biodiversity

Either
Gr. 2 - 12
40 – 60 min.
Simulation Game

Explore learning through understanding the importance of diversity within nature. Food pyramids, food webs, plant systems, and predator/prey relationships are incorporated into the lesson.

Conservation Has a History

Indoor
Gr. 4 - Adult
45 min.
Slides/Problem-solving

Americans have often found themselves at a crossroads to conservation. At what rate can natural resources be consumed and still conserve enough for future generations? Take a tour through history to learn about conservation advocates, the "Dust Bowl", and the Civilian Conservation Corp that ignited a conservation movement.

Watershed Enviroscape

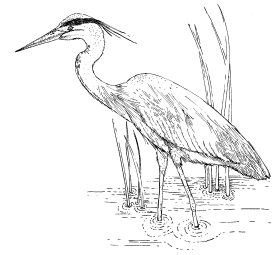
Either
Gr. 1 - Adult
30 - 45 min.
Hands-on/Model

The hands-on watershed model not only allows students to witness the effects of water pollution, but also the importance of riparian buffer zones. The students are able to observe pollution's impact on a watershed as a whole and discuss possible solutions for cleaner water.

Living a 'Green'Life

Either
Gr. 2 - Adult
30 - 45 min.
Activity

Students will find in this activity that we all have a part to play in protecting and conserving the resources of our planet. Program includes lots of R's: Renewable, Recycling, Reduce, Reuse, and Refuse.



Go with the Flow

Indoor
Gr. 4 - 12
40 min.
Hands-on

If you know what watershed you live in, you also know where the pollution in your area is headed. Students will use maps to discover their watershed address; making a connection of the effects that people have on the land and water from Lancaster to the Chesapeake Bay.

Incredible Journey

Either
Gr. 3 - 12
40 min.
Simulation

How can water move from an animal's body into an iceberg? This fun activity turns students into water molecules to help them understand that many things can affect the path of water in the water cycle.

Befriend a Bat

Indoor
Gr. K - 6
40 - 60 min.
Slides/Activity

Learn why bats are our friends and why they are so important to the environment. They are a beneficial resource that we often take for granted. The bats of Pennsylvania will be highlighted. Older grades will learn about White Nosed Syndrome that could dramatically decimate the bat population in our state within 2-3 years. Form and function is demonstrated through fun, interactive activity.

The Shopping Trip

Either
Gr. 4 - Adult
40 min.
Simulation

We have choices in the types of products we use to wash our hand, clean our clothes dishes, and disinfect our kitchens. Some of these products contain ingredients that can be hazardous to water quality. This lesson is designed to help youth explore how product choices can impact water quality along with the answer to the question, "Where does water go when it goes down the drain?".

Stream in a Bucket

Either
Gr. 3 - 12
45 - 60 min.
Hands-on

If you can't get to a stream, we'll bring one to you. Students investigate leaf litter for critters, macroinvertebrates, and whatever may be hiding in the leaves or swimming in the water sample. (spring, summer, early fall)

Stream Study

Outdoor
Gr. 3 - Adult
45 - 60 min.
Hands-on

Do you have a stream near your schoolyard that we can explore? We bring the equipment, you supply the site. We'll talk about the water cycle, investigate critters, and determine the overall health of the waterway. (spring, summer, early fall)

The Dirt on Soil

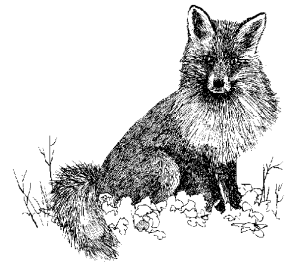
Either
Gr. K - Adult
40 min.
Hands-on

Find out what's really going on under our feet. Through hands-on activities students will investigate the many interesting properties and uses of different soils, and discuss why soil is so vital for all life. Literature connection included for elementary. (spring, summer, early fall)

TAPWater

Indoor
Gr. 2 - 12
40 - 60 min.
Simulation

The TAPWater curriculum includes activities relating to the water cycle, watersheds, wetlands, water conservation, water pollution, and water treatment. Activities cross curriculums referencing reading and math. Consult the Education Coordinator to choose an activity.



Trees and Forests

Either
Gr. 3 - 6
40 - 60 min.
Simulation

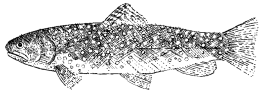
Out-of-your-seat activities allow students to discover the different parts of trees, and the form and functions of forests. Discussion also includes the human impact on Penn's Woods past and present.

Wading into Wetlands

Either
Gr. 3 - 8
40 min.
Simulation

Wetlands provide critical benefits to plants, animals, humans, and the total environment. Activities bring these benefits to life and encourage an appreciation of the important role wetlands play.

Lancaster County Conservation District's education programs address the PA Department of Education Environment and Ecology Standards. Take a look...



	4.1 Watersheds & Wetlands	4.2 Renewable & Nonrenewable Resources	4.3 Environmental Health	4.4 Agriculture & Society	4.5 Integrated Pest Management	4.6 Ecosystems & their Interactions	4.7 Threatened, Endangered, & Extinct Species	4.8 Humans & the Environment	4.9 Environ. Laws & Regulations
Animals in Winter			✓			✓	✓		
Awesome Owls			✓			✓	✓	✓	
Be a Tweet Sleuth			✓		✓	✓	✓	✓	
Biodiversity			✓		✓	✓	✓		✓
Conservation Has a History		✓		✓				✓	✓
Enviroscape	✓	✓	✓			✓		✓	
How much 'green' do you know?			✓					✓	
Go with the Flow	✓		✓	✓		✓		✓	
Incredible Journey	✓		✓			✓			
Befriend a Bat			✓			✓	✓		
The Shopping Trip	✓		✓					✓	
Stream in a Bucket	✓		✓	✓			✓	✓	
Stream Study	✓		✓	✓			✓	✓	
The Dirt on Soil	✓	✓	✓	✓	✓	✓		✓	
TAPWater	✓			✓		✓			
Trees and Forests		✓				✓		✓	
Wading into Wetlands	✓	✓	✓	✓				✓	

