

Lancaster County Conservation District Education Programs

2009-2010 School Year

Sallie Gregory, Education Coordinator 717-299-5361 x. 117

sallie.gregory@pa.nacdnet.net

Who We Are...

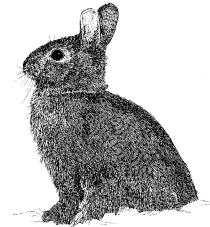
The mission of the Lancaster County Conservation District is to focus on the stewardship of land, water, and other natural resources. The District administers and participates in a variety of programs to protect and promote the wise use of natural resources.

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

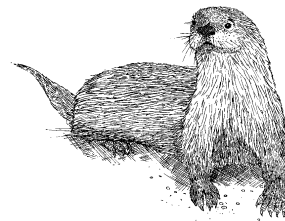
- Additional fee for special materials, i.e. owl pellets (\$2.25).

3.5 Programs for FREE: In the tradition of promoting soil and water stewardship the following programs will remain at no cost – *Soils, Dig In!, Stream Study, the Enviroscape, and Groundwater* (\$15 materials fee).

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
45 – 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.



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. Cost per pellet, \$2.25. Students often work in pairs to investigate pellets.

Bird Adaptations

Indoor
Gr. K – Adult
40 - 60 min.
Slides/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: Feathers, Feet are Neat, and Movin' On.

Biodiversity

Either
Gr. 2 - 12
45 – 60 min.
Games

Explore learning through *Project WILD*, and *Food, Land, and People* curriculum activities. Food pyramids, food webs, plant systems, and predator/prey relationships are incorporated into the lesson.

Field Guide to Your Schoolyard

Indoor/Outdoor
Gr. 3-12
50 min.
Hands-on

New program this year, based on the award winning books/project authored by Pennsylvania writer Jane Kirkland. This program is a basis for beginning to create a field guide. Benefits of the project: place-based learning, experiential learning, critical thinking, multiple intelligences, cross curriculums, build a relationship with local watershed, and more observant focused students in the classroom.

www.nostudentleftindoors.com

Enviroscape

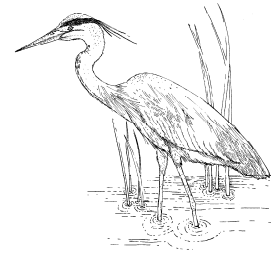
Either
Gr. 1 - Adult
30 - 45 min.
Hands-on

The hands-on enviroscape 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.

How Much 'Green' Do You Know?

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

How much **green** do we really know? 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
45 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
45 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 the water cycle is not usually just a circle and that many things can affect the path of water.

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 more about an unsolved mystery that could dramatically decimate the bat population in our state within 2-3 years. Form and function is demonstrated through fun, interactive activities.

The Lorax

Indoor
Gr. 4 - 8
45 min.
DVD/Hands-on

The Lorax tells a story meant to inspire stewardship. After watching the story or hearing it read, students will have the opportunity to create a forest management plan for the Truffula Forest. Can the Onceler utilize the forest resource wisely?

Groundwater Model

Either
Gr. 3 - Adult
40 min.
Simulation
Material Fee: \$15.00

Pulled by gravity, groundwater is always on the move. The rate of movement varies from a few inches a year to several miles a day. The model defines groundwater, aquifer, and karst formation. Pollution and water movement are demonstrated in varied rock.

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
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)

Soils, Dig In!

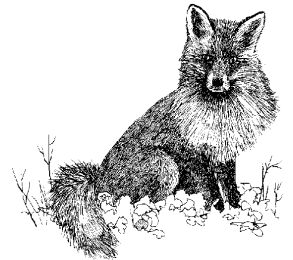
Either
Gr. K - 7
45 min.
Hands-on

Do not let soils be a dry and dusty topic! 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. Bestseller, *Diary of a Worm* is shared in programs for grades K-4. (spring, summer, early fall)

TAPWater

Indoor
Gr. 2 - 7
45 - 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
45 - 60 min.
Simulation

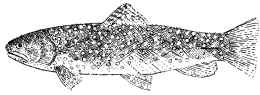
Out-of-your-seat activities allow students to discover the different parts of trees, and the form and functions of forests. Discussion also includes the human impact on Penn's Woods past and present.

Wetland Wonders

Either
Gr. 3 - 8
45 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			✓			✓	✓	✓	
Bird Adaptations			✓		✓	✓	✓	✓	
Biodiversity			✓		✓	✓	✓		✓
Field Guide for Your Schoolyard	✓	✓	✓					✓	✓
Enviroscape	✓	✓	✓			✓		✓	
How much 'green' do you know?			✓					✓	
Go with the Flow	✓		✓	✓		✓		✓	
Incredible Journey	✓		✓			✓			
Befriend a Bat			✓			✓	✓		
The Lorax			✓						
Groundwater Model	✓	✓	✓					✓	✓
Stream in a Bucket	✓		✓	✓			✓	✓	
Stream Study	✓		✓	✓			✓	✓	
Soils Dig In	✓	✓	✓	✓	✓	✓		✓	
TAPWater	✓			✓		✓			
Trees and Forests		✓				✓		✓	
Wetland Wonders	✓	✓	✓	✓				✓	

