



**Franklin Soil and Water Conservation District**  
 Creating Conservation Solutions for Over 70 Years

# RESOURCES FOR EDUCATORS

## FRANKLIN SOIL AND WATER CONSERVATION DISTRICT

Franklin Soil and Water Conservation District provides many resources for students, homeschoolers, camp programs and scout groups. This includes interactive programs (in-person and virtual), soil/water resources, videos and loan kits.

### INTERACTIVE ENVIRONMENTAL EDUCATION PROGRAMS

TOPIC OR THEME	PROGRAM	PROGRAM DESCRIPTIONS
<b>Environmental Awareness</b> Human Impact Grades PreK-5	<b>The Lorax</b> by Dr. Seuss	Through participation in the narration of this Dr. Seuss story, students witness human impact on the environment and discuss the importance of making wise choices.
<b>Environmental Awareness</b> Human Impact Grades PreK - 5	<b>Francis the Fish</b>	Students portray characters in a local community and observe how everyday actions impact water quality in our local streams.
<b>Environmental Awareness</b> Water Quality/Human Impact Grades 1-12	<b>What's in Our Water?</b>	Using the EnviroScape watershed model, students observe changes in water quality when rain and land pollutants mix. Runoff, erosion, point and non-point source pollution concepts will be addressed.
<b>Environmental Awareness</b> Soil Erosion/Water Quality Grades: 1-12	<b>The Sliding Soil</b>	Using a soil erosion simulator, students predict and compare the effects of rain falling on bare soil, mulched soil, grass and a driveway. Soil erosion, water quality and landscape alterations are discussed.
<b>Habitat or Ecosystems</b> Life in the Soil Grades PreK-5	<b>Discovering Soil is Alive</b>	In this hands-on investigation, students discover that soil is alive as they uncover invertebrates living below. Students will determine that soil is a habitat for many animals and that these animals make our soil healthy.
<b>Habitat or Ecosystems</b> Life in a River Grades K-5	<b>Crawdad Creek</b> by Scott Russell Sanders	Sitting around a "dry stream" model, students encounter local stream animals, and their habitat needs as we read <i>Crawdad Creek</i> by Scott Russell Sanders.
<b>Habitat or Ecosystems</b> Life in a River Grades K- 2	<b>Rain Fish</b> by Lois Ehlert	Science, art and literacy intersect in this program. Using the book <i>Rain Fish</i> , students will discover what rain fish are, create their own rain fish and understand that only rain should go down the storm drain.
<b>Habitat or Ecosystems</b> Life in River Grades 3-5, 7, 9-12	<b>Splashing Into Stream Quality</b> <small>*This program can be modified for virtual learning opportunities.</small>	Students investigate what lives below the surface of a local stream and participate in scientific sampling techniques to determine the health of the stream based on the macroinvertebrates collected.
<b>Natural Resources</b> Plants Grades 2-8	<b>The Power of Native Plants!</b>	Students discover the parts of native plants/their different roles and learn what plants need to survive. Students will discover that plants are important providing food, oxygen and filtering stormwater runoff.
<b>Natural Resources</b> Soil Grades 3-8	<b>Exploring Soil</b>	Through hands-on activities, students will create new soil with rocks, texture different soils to determine soil type and investigate soil horizons, components, types, their uses and the importance of soil.
<b>Natural Resources</b> Water Grades 4, 7, 8, 9-12	<b>Where Does Our Water Flow?</b> <small>*Virtual Program Only</small>	The Augmented Reality Sandbox (ARS) is a model that demonstrates changes to landscapes and how water flows across a watershed, in real time. Students will investigate hydrology, watersheds, and run off.
<b>Natural Resources</b> Fossils Grades 4	<b>Fascinating Fossils</b> <small>*Virtual Program Only</small>	Let's take a step back in time! We'll investigate different types of fossils and how they are formed, compare fossils to present day organisms and discover living fossils that can be found today.

## SOIL & WATER RESOURCES: SWIFTlets

SWIFTlets are two-page documents that include soil/water information and learning activities related to a specific environmental theme. These can be used to extend learning at-home or in the classroom. ([Click here](#) for our Standards Correlations Document)

<a href="#">Pesky Pollution</a>	<a href="#">Soil Superheroes</a>	<a href="#">Surprising Seeds</a>	<a href="#">Native Plants</a>	<a href="#">Celebrating the Earth</a>	<a href="#">Pollinator Power</a>
<a href="#">Wonders of Water</a>	<a href="#">Helping Hands for Endangered Friends</a>	<a href="#">Mighty Macros</a>	<a href="#">Splendid Soil</a>	<a href="#">Scoop on Scat</a>	<a href="#">Stream Stewardship</a>
<a href="#">Waste Not, Want Not</a>	<a href="#">Looking at Leaves</a>	<a href="#">Studying Stormwater</a>	<a href="#">Colorful Compost</a>	<a href="#">Below the Winter Snow</a>	<a href="#">Venturing Into Vernal Pools</a>
<a href="#">Fascinating Fossils</a>	<a href="#">Curious Clouds</a>	<a href="#">Cicada Palooza</a>	<a href="#">Amazing Agriculture</a>	<a href="#">SWIFTlet+ Macro Informants</a>	<a href="#">SWIFTlet+ Wild Waterways</a>

## VIDEOS & DIGITAL PRESENTATIONS

VIDEO	LENGTH	TOPIC
<a href="#">Soil Tunnel Explanation</a> <i>Grades 3, 6, HS Environmental Science</i>	16 minutes	Basic soil information
<a href="#">Soil Erosion Simulator Demonstration</a> <i>Grades 4, 8, HS Environmental Science</i>	6 minutes	Experiment with the force of rain on soil, mulch, grass and paved surface
<a href="#">EnviroScape Watershed Model</a> <i>Grades PreK, 1- 4, 7, HS Environmental Science</i>	4 minutes	Demonstration of non-point and point sources of pollution
<a href="#">Searching for Macroinvertebrates</a> <i>Grades PreK-5, 7 HS Environmental Science</i>	11 minutes	Macroinvertebrates: What they are, why they are important & where to find them

## MODELS & KITS FOR LOAN

TOPIC	MODEL/KIT	DESCRIPTION
<b>Natural Resources</b> Soil <i>Grades 3-8</i>	<b>Rocks &amp; Soil Loan Kit</b>	Includes: Information/reference materials, activities, books and rock/fossil/soil samples. Students can explore the properties, types and importance of rocks, minerals, fossils and soil.
<b>Environmental Awareness</b> Soil Erosion/Water Quality <i>Grades: 1-12</i>	<b>The Sliding Soil</b>	Using the soil erosion simulator model, students predict and compare the effects of rain falling on different landscapes. Soil erosion, water quality and landscape alterations are discussed.
<b>Environmental Awareness</b> Ground Water/Water Quality <i>Grades: 6-12</i>	<b>Ground Water Model</b>	This cross-section model includes such features as confined/unconfined layers, aquifers and fractured bedrock. Students can observe the dynamics of water flowing underground and discover how a contaminated well can affect the quality of water for miles.
<b>Environmental Awareness</b> Stream Habitats/Water Quality <i>Grades: 1-12</i>	<b>Watershed Loan Kit</b>	Includes: Information/resources, activities (including <b>Francis the Fish</b> ), books, preserved macroinvertebrates, puppets, posters and a dry stream model. Students can become familiar with the concepts of stream habitats, watersheds and water quality.
<b>Environmental Awareness</b> Water Quality/Human Impact <i>Grades 1-12</i>	<b>What's in Our Water?</b>	Using the EnviroScape watershed model, students observe changes in water quality when rain and land pollutants mix. Runoff, erosion, point and non-point source pollution concepts will be addressed.



**Franklin Soil and Water Conservation District**  
franklinswcd.org • (614) 486-9613

Please contact [Linda Pettit](#), Environmental Education Specialist for additional information or to schedule a program