

## Outdoor Programs

The Friends of Lower Muskingum River can work with you to incorporate outdoor activities into any of our programs. The following programs are specially designed for the outdoors.

### Nature Walk

*Grades K-2:* Take a walk through nature and study living things in their natural environments. Learn about the basic needs of living organisms and observe how they adapt themselves to live in their environment. In addition, students will be able to observe the variation between individual organisms within the same species.

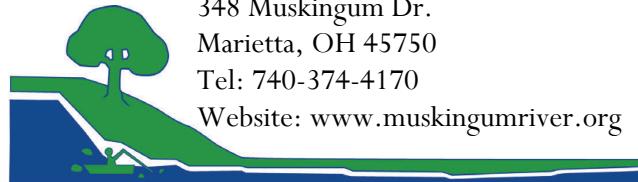
*Grades 3-4:* See up close how erosion is shaping the landscape of our region. Students will take a nature walk through their community and learn about Ohio's rocks, soils, and plants and their interactions with each other.

### Assessment of Habitats and Bugs

*Grades 5-6:* Studying the habitat of a body of water and the bugs living within it are both methods used by scientists to determine water quality. Students will get to practice the techniques used by the Ohio EPA to assess stream habitats and will determine if the stream has the features needed for a diverse number of organisms to live. Students can also catch bugs with nets and learn how aquatic insects interact with each other and adapt themselves to an environment.

## About the Friends of Lower Muskingum River

Friends of Lower Muskingum River (FLMR) is a partnership of organizations and individuals whose mission is to restore, protect and maintain the physical, chemical and biological integrity of the Muskingum River and to protect and promote its natural, cultural, historic and socioeconomic resources. FLMR has been a 501(c)3 tax exempt organization since early 2003. In conjunction with its partner agencies, FLMR is steadily increasing public participation, collecting and analyzing existing water quality and biological data, identifying issues and goals, and successfully seeking funding to restore the watershed to its highest ecological potential.



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## FRIENDS OF LOWER MUSKINGUM RIVER

# Classroom Educational Programs

## Grades K-6



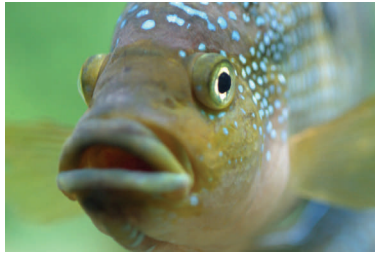
*Free educational programs presented by the Friends of Lower Muskingum River on the environment, water and soil issues, and conservation. All programs are designed to meet the Ohio Academic Science Content Standards for grades K-6.*

## Classroom Programs

All programs are designed to meet Ohio Academic Content Standards. The grade levels indicated in this brochure are suggestions only. If a program interests you that is not indicated for your class's grade level, please do not hesitate to contact us. We would be happy to work with you to adapt any of these programs to fit the needs of your students or curriculum.

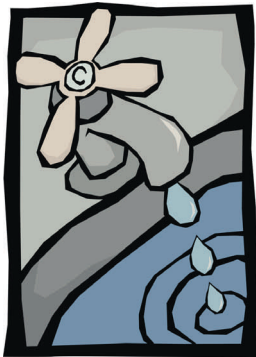
### Freddie the Fish

Grades K-3:  
Freddie is a fish living in the Muskingum River. Through an interactive program, students will see how human actions are changing Freddie's habitat and learn how Freddie is impacted by these changes.



### Don't Use Up All of the Water!

Grade 1-5: This is a hands-on activity that demonstrates to students how quantities of water on Earth are limited and need to be used carefully to ensure that we don't use it all up. This program will teach students that resources are limited but can be extended through careful usage, recycling, and other activities.



## Soil, Soil, Everywhere

Grade 3: Through this fun, interactive program, students will observe the differences between several types of soils. They will also play a game that models soil structure to teach students why some soils are better able to hold water and support plant life than others.

### The Incredible Journey

Grade 4: In what forms does water exist on Earth? Students will be able to answer this question after creating their own closed system in a jar and observing the water cycle in action. Students can also play a game to simulate how water molecules move through the water cycle.



### Annoying Neighbors

Grades 3-6: Each student in the class has won a million dollars and a piece of land along the Muskingum River to develop any way that he/she would like. How will he/she develop the property and what will be the impact of this development on the stream and their neighbors downstream? In this exercise, students will get to see how the technologies and development that they chose for their land will have positive or negative impacts on the environment around them, depending on how they act.



## Enviroscape

Grades 3-6: This program will use the enviroscape model to demonstrate the impact of point source and non-point source pollution on rivers and other bodies of water. Potential solutions to these issues will also be presented. Through this program, students will learn how humans can impact the environment in a positive or negative manner depending on their actions.



### What's Under Our Feet? Understanding Ground Water Issues

Grades 3-6: Using a ground water model, students will learn about the issues surrounding ground water. They will also observe how different soil types impact ground water movement and how certain human activities can deplete or pollute ground water for an entire area.

### Contact Information

For more information about any of the programs described in this brochure or to schedule a free presentation in your school, please contact Brenda Lazarus or Kristyn Robinson at 740-374-4170 or flmr@sbcglobal.net.