



Lake Erie Nature & Science Center

# FIELD TRIP PROGRAMS

2019–2020



28728 Wolf Road | Bay Village, OH 44140 | 440-871-2900 | [www.lensc.org](http://www.lensc.org)

# LAKE ERIE NATURE & SCIENCE CENTER FIELD TRIPS

Lake Erie Nature & Science Center has been providing field trips for school students for more than 50 years. Our qualified educators have degrees in science--from biology to astrophysics--and specialize in working with school-age children. The current field trip lineup was designed in collaboration with teachers from Bay Schools and aligns with Ohio Academic Content Standards. Best of all, Lake Erie Nature & Science Center field trips engage students in inquiry-based learning using our extensive collections and resources, including native wildlife, a state-of-the-art planetarium, interactive exhibits and access to the 100-acre Huntington Reservation parkland with its forest, field, stream and Lake Erie habitats.

## PRICING AND SCHEDULING

### Program (Max: 30 Students)

120 minutes	\$175
90 minutes	\$150
60 minutes	\$125
30 minutes	\$100

Purchase order or payment arrangements must be made upon booking. Email the Center at [groupprograms@lensc.org](mailto:groupprograms@lensc.org) or call 440-871-2900.

## TEACHER GUIDES

Each Teacher Guide features a field trip program description, vocabulary, suggested reading, pre-trip, post-trip and extension activities and Ohio Academic Content Standard alignments. Visit our website at [www.lensc.org](http://www.lensc.org) to view the Teacher Guides.

\*Updated to include climate literacy.



## LIFE SCIENCE

### ANIMALS, ANIMALS\*

Grades: All ages (Pre-K and up) | 30 or 60 minutes  
Recommended Chaperones: 2 adults

This unique animal program provides hands-on, up-close encounters with Center animals, including mammals, reptiles and birds of prey in a classroom setting.

Content is tailored to the age level of participants and may vary according to availability of Center animals.

### WILDLIFE OF OHIO\*

Grades: All ages (Pre-K and up) | 60 minutes  
Recommended Chaperones: 2 adults

Get wild with Ohio's critters! We bring wildlife into the classroom for up-close encounters and include a walk in the outdoor Wildlife Gardens to highlight the many resident Ohio animals that are on exhibit at Lake Erie Nature & Science Center.

Content is tailored to the age level of participants and may vary according to availability of Center animals.

### NATURE HIKE\*

Grades: All ages (Pre-K and up) | 60 minutes  
Recommended Chaperones: 2 adults

What are the native plants and animals of Ohio's fields and forests? The outdoors is our classroom as we explore and discover the habitats of Huntington Reservation. This class provides a great introduction to the Ohio wildlife and native species science content standards.

Not recommended December through February.

### OHIO'S LIVING FOREST\*

Grades K-5 | 90 minutes  
Recommended Chaperones: 2-3 adults

This indoor and outdoor, inquiry-based field trip highlights the role of trees and allows students to interact with some of our resident Ohio forest animals. We will head out on a hike in the forest of Huntington Reservation to observe and investigate how native plants and animals survive and thrive.

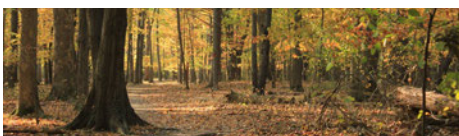
Not recommended December through February.

### HABITATS\*

Grade 2 | 90 minutes  
(45 min. indoors/45 min. outdoors)  
Recommended Chaperones: 4 adults

This inquiry-based field trip examines how plants, animals and nonliving things interact within a habitat. Students explore at "investigation stations" then head out on a guided hike in Huntington Reservation.

Not recommended December through February.



### ADAPTATIONS FOR SURVIVAL\*

Grades 2-4 | 60 minutes  
Recommended Chaperones: 5 adults

In this informative field trip, students will investigate how animals in the wild survive. Students will observe the Center's wildlife and natural artifacts, and will participate in our "Adaptation Investigation" inquiry activity to see first-hand some of the amazing adaptations that help animals "make a living."

### WEB OF LIFE\*

Grades 4-6 | 90 minutes  
Recommended Chaperones: 2 adults

In this active class, we'll focus on the basic principles of ecology, learn how living organisms depend on one another for survival and discuss how humans interact with the natural world. During the numerous hands-on activities, students will create food chains and discover how the resources of our planet are distributed in an eye opening activity.

### OUR GREAT LAKE ERIE\*

Grades 3 and up | 90-120 minutes  
Recommended Chaperones: 4 adults

In this hands-on field trip, we will investigate Lake Erie both in the classroom and in person! Working in small teams, we will use models to uncover why Lake Erie is important, what lives there and how humans impact the lake. We will hike to the lake and explore our north coast shoreline and conduct authentic water sampling to determine the health of our lake. Please arrange for school field trip buses to pick you up at the east end of the Lake Erie parking lot in Huntington Reservation at the conclusion of your field trip time.

Available during the school year in the months of September, October, April or May.

## PHYSICAL SCIENCE

### MOTION AND MATERIALS

**Grade 1 | 60 minutes**

*Recommended Chaperones: 6 adults*

In this hands-on field trip, program students will work together to solve a set of motion challenges using educational materials to observe and explain ways objects move.

### FORCES AND MOTION

**Grade 2 | 60 minutes**

*Recommended Chaperones: 6 adults*

Observe how magnetism, gravity and wind change the path and position of objects. Students will conduct interactive experiments at “investigation stations” to learn about how changing forces change the motion of objects. Try your hand at building foil boats and powering them with wind. Experiment with dropping different objects in a controlled environment and see a jaw dropping demonstration.

### ENERGY CAUSES CHANGE

**Grade 3 | 60 minutes**

*Recommended Chaperones: 6 adults*

Active exploration leads to inquiry as students interact at “investigation stations” to learn how energy can cause change on Earth. Topics to explore will include thermal, electrical and magnetic energy. Watch colored ice melt, experiment with sound and use your own energy to make things change.

### LIGHT, HEAT AND ELECTRICITY

**Grade 4 | 60 minutes**

*Recommended Chaperones: 6 adults*

In this inquiry-based field trip, students experiment with heat, light and electricity to explore energy transformation. Learn about circuits and what acts as a conductor of heat and electricity. Build your own circuits, experiment with heat and ice, and see how light makes things move. Demonstrations included.

## SPACE SCIENCE

### STARS AND STORIES

**Pre-K | 30 minutes**

*Recommended Chaperones: 2 adults*

In this planetarium field trip, students blast off and travel through space to learn about the Sun, Moon and stars and participate in constellation stories. This is a perfect first field trip for students who have never experienced a planetarium.

### LOOK UP!

**Grades K–1 | 30 minutes**

*Recommended Chaperones: 2 adults*

Students explore what is in the sky during the day, at night and during the different seasons in this planetarium field trip. We will discuss the various objects that can be seen in the sky and make them appear on the planetarium dome. We'll model the movement of the Sun, discover the phases of the Moon and explore tonight's sky.

### THE MOON

**Grades K–2 | 60 minutes**

*Recommended Chaperones: 2 adults*

This unique field trip option employs an animated full dome movie about the Moon interspersed with live discussion with a Center astronomer. Students will learn to identify the face of the Moon, observe its daily apparent motion and get a brief description of Moon phases.

### THE NIGHT SKY

**Grades 1 and up | 30 minutes**

*Recommended Chaperones: 2 adults*

Take a tour of the current night sky focusing on the seasonal constellations, current moon phase, visible planets and more.

### SOLAR SYSTEM EXPLORER

**Grades 1–5 | 60 minutes**

*Recommended Chaperones: 2 adults*

Take a guided trip through the solar system with expert astronomers in our planetarium and explore the planets in detail. See real images taken by NASA space crafts of other planets and learn all about the basic properties of the solar system. Students will learn about our unique solar system and its place in the galaxy and universe. This field trip can be adapted for any grade level.

### REASONS FOR THE SEASONS

**Grade 5 | 60 minutes**

*Recommended Chaperones: 2 adults*

Students will explore the planetary reasons for the seasons. With an astronomer as the guide, learn about latitude, orbits, and the cycles and patterns of motion between the Earth and Sun. Using the unique attributes of a planetarium, students will explore and experience this concept in a new way.

### DANCE OF THE EARTH, MOON AND SUN

**Grade 7 | 60 minutes**

*Recommended Chaperones: 2 adults*

Hands-on activities and planetarium dome models will help your students experience moon phases and eclipses to understand the “dance” of the Earth, Moon and Sun. Using models, students will learn how to explain the moon phases, as well as solar and lunar eclipses. A short discussion of tides is included.



## EARTH SCIENCE

### WEATHER AND CLIMATE\*

**Grades 1–6 | 90 minutes**

*Recommended Chaperones: 4 adults*

In this newly redesigned hands-on field trip, students will participate in exciting weather demonstrations and use tools to observe and record current weather conditions. Utilizing real data, students will explore the difference between climate and weather. Grades 4 and 5 will also learn how climate change is impacting people, native plants and animals.

*Not recommended December through February.*

### POWER OF WATER\*

**Grades 1–6 | 90–120 minutes**

*Recommended Chaperones: 6 adults*

In this hallmark inquiry-based field trip, students will explore and define how Earth's surface has been shaped by water. Students will get their hands wet using stream tables to investigate how erosion and deposition change landforms.

*Available in January*

### BE AN EARTH ROVER

**Grade 3 | 90 minutes**

*Recommended Chaperones: 5 adults*

In this inquiry-based experience students will get their hands dirty exploring the soil and rocks that make up our local Earth surface. Students explore at “investigation stations” then head out on a hike to conduct core sampling in this survey of the non-living world.

*Available during the school year in the months of September, October, April or May.*

### GEOLOGY ROCKS!

**Grades 5–7 | 90–120 minutes**

*Recommended Chaperones: 4 adults*

Hands-on investigations will help students gain an understanding of the “rock cycle” and the Earth's composition. Students will try their hand at rock and mineral identification with our extensive rock and mineral collection. We will also study Ohio geology and hike to explore the geological features of Huntington Reservation.

*Not recommended December through February.*

## SUMMER OFFERINGS



### SUMMER PROGRAMS *NEW!*

The Center offers a variety of group programs during the summer months including:

- **Outdoor hikes**
- **Animal presentations**
- **Planetarium presentations**

For more information, please email [groupprograms@lensc.org](mailto:groupprograms@lensc.org) or call 440-871-2900.

## OUTREACH PROGRAMS



### WILDLIFE

A Live Animal Outreach Program is approximately 60 minutes long and will focus on native species, the difference between wild and domestic animals, or the differences between mammals, birds and reptiles.

**Fee:** \$300 for a maximum audience of 50 people.

*Please note: There is an additional fee for travel outside of Cuyahoga County and Lorain County.*

Call the Center at 440-871-2900 to plan your outreach program.

**“THANKS FOR BRINGING  
SCIENCE TO LIFE FOR  
OUR STUDENTS!”**



Lake Erie Nature & Science Center

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Bay Village, OH 44140

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501(c)(3) nonprofit organization

Tax ID #34-0845030

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Lake Erie Nature & Science Center is supported in part by the residents of Cuyahoga County through a public grant from Cuyahoga Arts & Culture.



Wild Birds Unlimited<sup>®</sup>  
Nature Shop

Located inside  
Lake Erie Nature & Science Center