UNITY IN LEARNING
EDUCATION PROGRAMS, 2016–2017

ANN ARBOR HANDS-ON MUSEUM

LESLIE SCIENCE & NATURE CENTER
ANN ARBOR HANDS-ON MUSEUM EDUCATION PROGRAMS 2016–2017

Our school programs are purposefully designed to complement current Michigan K–12 Science Standards including Next Generation Science Standards as a framework for instruction and learning.

For more information visit aahom.org/programs or call 734.995.5439.

At the Museum, At Your Site, + Virtually Anywhere!

**AT THE MUSEUM**

4 FLOORS OF EXHIBITS
Come on a Field Trip and find more than 250 interactive science, technology, energy, and health exhibits for your students of all ages.

**SCIENCEWORKS**
Your students become scientists during our 50-minute ScienceWorks Labs that provide hands-on experience with a variety of topics.

**AT YOUR SITE**

OUTREACH
We bring the Museum to you with our Outreach Program. We offer fun, inquiry-based programs for students in your classroom, library, festival, or youth center.

**VIRTUALLY ANYWHERE!**

DISTANCE LEARNING
Through our Distance Learning Program, our educators use videoconferencing to engage your students in a dynamic, interactive, hands-on learning experience.
“Come forth into the light of things, let Nature be your teacher.”

WILLIAM WORDSWORTH

LESLEY SCIENCE & NATURE CENTER
EDUCATION PROGRAMS
2016–2017

Our school programs are purposefully designed to complement current Michigan K–12 Science Standards including Next Generation Science Standards as a framework for instruction and learning.

For more information visit lesliesnc.org or call 734.997.1553.

PRESCHOOL PROGRAMS
OUTREACH + FIELD TRIPS

AT LSNC
K–5 FIELD TRIPS

AT YOUR SITE
K–12 OUTREACH + AFTER SCHOOL PROGRAMS

AFTERSCHOOL PROGRAMS

SCOUTS
CUB SCOUTS + GIRL SCOUTS

LSNC PHOTOGRAPHY
Leisa Thompson

GRAPHIC DESIGN
Susan Ackermann
Education Programs
Our mission is to inspire people to discover the wonder of science, technology, engineering, art, and math. Our vision is to be the leader in imaginative and interactive learning experiences.
CONCOURSE
Travel to the far reaches of Earth, Mars, and the moon at Explore Your World (powered by Google Liquid Galaxy), control a vortex of vapor with a wave of your hand, and construct castles higher than your head in our giant Block Party.

ALL ABOUT YOU GALLERY
Sit behind the wheel of a real ambulance, challenge your physical abilities, and take a ride with Dr. Bones.

PRESCHOOL GALLERY
AGES 4 AND UNDER
Spin, tip, and roll balls on our giant ball track Engineers on a Roll and navigate the friendly waves in our water tables.

LEGACY GALLERY
Send “packets” of information across a simulated computer network, explore the mechanics of gears, pulleys, and circuits, and create spiky patterns in ferrofluids using our magnetoscope.

MICHIGAN NATURE ROOM
Bring life to your senses through the sights, sounds, and fossils of the area as you immerse yourself in Michigan from the ground up.

THE WORLD AROUND YOU GALLERY
Encapsulate your body in a cylindrical bubble, climb a Michigan rock wall, investigate magnetic fields, and walk on our big piano.

At the Museum
EXPLORE + DISCOVER 4 FLOORS OF EXHIBITS
LYONS COUNTRY STORE
Take a step back in time and experience a real general store, complete with 1930s objects and moving “holographic” characters from the era.

LIGHT AND OPTICS GALLERY
Manipulate light and sound to make musical notes, move streams of plasma with a touch of your fingers, and capture your shadow in a flash.

MEDIAWORKS GALLERY
Hit the dance floor with your computer-enhanced silhouette, fly through the clouds or hang with the apes using our Green Screen.

Field Trip Information

Visits to the Museum are generally two hours long.

A ScienceWorks Lab and/or a lunch will increase the length of your visit.

We request 1 adult chaperone for every 6 children.

ADMISSION

$8 per child for groups of 15 or more.

All teachers and chaperones are free.

Groups must register in advance to receive group rates.

LUNCHROOMS

The Museum does not offer food services and has limited facilities for groups that bring lunches.

A lunchroom may be rented but must be reserved in advance. The cost is $10 for 30 minutes.

NON-REFUNDABLE DEPOSIT

$120 deposit is due two weeks after confirmation email is sent.

Balance will be invoiced the day of the visit.

No refunds.

PLAN YOUR VISIT

www.aahom.org/fieldtrips
At the Museum
FIELD TRIPS + SCIENCEWORKS

Extend your field trip with one of our hands-on ScienceWorks Labs.

PLEASE NOTE: All ScienceWorks Labs must be booked in advance.

CAPACITY: 30 students per class; 2 classes may be held at the same time for up to 60 students. We can accommodate a maximum of 120 students from a single school in lab classes per visit.

FOR MORE INFORMATION: Contact the ScienceWorks Manager or Registrar at fieldtrips@aahom.org aahom.org/scienceworks 734.995.5439

Preschool ScienceWorks Labs

TIME: 30-minute lab

FEE: $2 per student; Minimum charge per lab is $30 (regardless of number of students)

ALL ABOUT OUR Senses
Explore four of the five senses. Can you see a sound? Smell a color? Come play with us and explore sight, sound, smell, and touch.

MUSIC AND MOVEMENT
Young children explore science and music through pitch, tempo, and volume and learn how these blend to create music.
Standard ScienceWorks Labs

**TIME:** 50-minute lab

**FEE:** $4 per student; minimum charge is $60 (regardless of number of students)

**NEW!**

**ESTIMATION STATION**
*GRADES K–1*

How many? What’s a bit? How big? Will it fit? Learn to make estimates about the world around you in this lab. You don’t always have to be exact to be correct.

**NEW!**

**ENGINEERING DESIGN**
*GRADES K–2*

Engineer your way through multiple problems. Design solutions while you experience the engineering process through questioning, planning, building, testing, and analyzing your creation.

**SLIME TIME!**
*GRADES K–2*

Investigate three states of matter by measuring and mixing ingredients for two types of slime. Is it a solid, a liquid, or something else? Get ready to get messy.

**MARVELOUS MAGNETS**
*GRADES K–3*

Learn about magnetism. Explore whether all metals are magnetic, make magnets attract and repel, even get them to float in mid-air.

**BRIGHT IDEA**
*GRADES 1–4*

Explore light as we learn how light travels and discover the difference between reflection and refraction. Tools include flashlights, lenses, special glasses, and mirrors.

**FORCE AND SIMPLE MACHINES**
*GRADES 2–3*

Push and pull your way through this exploration, discovering how force affects motion, and how simple machines can make your life easier.

**WATER CYCLE**
*GRADES 2–4*

Look Beyond the four stages of the water cycle. Engage in experiments and become a water drop as you experience the many paths of a water molecule.

**SOUND SCIENCE**
*GRADES 3–5*

Discover the amazing physics of sound. Makes waves that travel through different states of matter and explore how pitch relates to frequency.

**CIRCUIT MASTERS**
*GRADES 4–5*

Explore the two types of circuits and the parts that make them work. Build a burglar alarm and more with our safe, interlocking electronic components.

**THE UPS AND DOWNS OF ROLLER COASTER PHYSICS**
*GRADES 4–8*

Experiment with momentum and kinetic and potential energy by building roller coasters in teams. Let the forces of physics take you for a ride!
“Our Girl Scouts earned their detective badges here.... We will be back!”

SCOUT LEADER

**Premium ScienceWorks Labs**

**TIME:** 50 minute lab

**FEE:** $5 per student; minimum charge per lab is $75 (regardless of number of students)

**NEW!**

**WIND ENERGY**

**GRADES 4–8**

Discover how wind can be harnessed to produce electricity and build a working wind turbine! Explore the transformation of energy between kinetic, potential, mechanical, and electrical.

**NEW!**

**CHEMISTRY**

**GRADES 5–8**

Mix your way to new states of matter, heat things up with an exothermic reaction, and discover the difference between chemical and physical change.

**FLYING TOYS**

**GRADES 5–8**

Explore the science of flight by designing and creating flying toys. Participants will learn all about physics and motion while making a variety of airborne toys.

**CRIME LAB CAPER**

**GRADES 5–8**

Someone has broken into the Museum van and stolen a laptop! Become Museum detectives and use forensic science to analyze evidence and crack the case.

**COW EYE DISSECTIONS**

**GRADES 5–8**

Investigate how the eye works by dissecting a real cow eye. Students will connect their observations to structures within the eye.
SCIENCE AFTER SUNDOWN

Experience the Museum like never before. Arrive after hours and enjoy exclusive access to our 250+ exhibits. Start with dinner, followed by a workshop of your choosing, and finish off the night with plenty of free time for exploration.

$1000 minimum covers 35 people; $30/additional person. Parents and siblings welcome and encouraged to attend.

6:00pm to 10:00pm

CUSTOM PROGRAMS

We can customize a program just for your Scout group. In addition to the Badge and Adventure Loop Workshops, we also offer a variety of non-badge specific labs, workshops and events, which work for mixed level groups. Contact us to discover what’s possible!

FOR MORE INFORMATION: Contact the Scouts Coordinator at
scouts@aahom.org
aahom.org/scouts
734.995.5439
At Your Site

Our Outreach staff brings the Museum to you—at schools, libraries, community centers, and festivals—by delivering hands-on programming customized to your schedule and curriculum interests.

WORKSHOPS
Get attracted to the world of magnets, or fly a boomerang through the air with the greatest of ease! Our educators lead your students through 50- or 90-minute explorations of targeted topics with our curriculum tailored to engage specific grade level(s). Maximum of 30 participants per session.

Booking Multiple Workshops
Whether we visit your classroom, your school, or your entire district, save with our Scientist level packages.

NEWTON: BOOK 1–8 WORKSHOPS
$310 plus mileage for the first two workshops. $125 for each additional workshop.

GALILEO: BOOK 9–14 WORKSHOPS
$310 plus mileage for the first two workshops. $115 for each additional workshop.

EINSTEIN: BOOK 15+ WORKSHOPS
$310 plus mileage for the first two workshops. $100 for each additional workshop.

Workshops may be scheduled for anytime during the same school year, but all requests eligible for discount must be submitted, received, and approved at the same time.
ENGINEERING WORKSHOPS

**Egg Drop Soup:** Grades 3–7

**Circuits:** Grades 3–5

**Roller Coasters for Your Classroom:** Grades 4–8

**Boomerangs: Flying with Style:** Grades 3–8

PHYSICAL SCIENCES WORKSHOPS

**The Universe: Starlab Planetarium:** Grades 2–8 Please note special space requirements

**Young Universe:** PreK

**Magnetism:** Grades PreK–4

**Force and Motion:** K–2

**Sound Science:** Grades 2–4

**Light and Optics:** Grades 3–4

**Chemistry:** Grades 4–5

NATURAL SCIENCES WORKSHOPS

**Fossil Record:** Grades 2–3

**A Bug’s Eye View:** Grades 1–3

**Neuroscience:** Grades 4–6

**Blowing Bubbles:** Grades K–6

**The Water Cycle:** Grades 2–4

**Crime Lab:** Grades 4–8

FAMILY SCIENCE AND MATH NIGHTS FOR PREK–8 & FAMILIES *Evening Programs*

Invite the entire school community to your site for a math and science celebration! These programs are specifically designed to encourage students to explore 20 mind-boggling activities for 2 hours with their families, teachers, classmates, and friends. You provide the space, 20 tables, and 20 volunteers. We provide the rest.

STANDARD THEMES AVAILABLE:

STEM (mix of activities)
Science
Math and Engineering
Technology (10 activities)

**Fee:** $860 plus mileage per session

PREMIUM THEMES AVAILABLE:

Technology (15 activities)
Science + Literacy
Wind Energy

**Fee:** $1060 plus mileage per session

100–500 participants per session

YOUNG SCIENTIST FAMILY NIGHTS FOR PRESCHOOLERS & FAMILIES *Evening Programs*

These science and math programs are specially designed with your preschool scientists in mind! Students and their families explore 15 activities for 2 hours. You provide the space, 15 tables, and 15 volunteers. We provide the rest.

**Fee:** $635 plus mileage per session

300 participants per session

For full descriptions of workshops, please visit aahom.org/experience/programs
SUPER SCIENCE AND MATH DAYS  Daytime
While there are no tights or capes involved here, these programs highlight the heroic in science and math. Students are rotated through 10 seriously super experiments each hour for one truly engaging experience! You provide the space, 10 tables, and 10 volunteers. We provide the rest. Grades PreK–8.

$435 plus mileage for 1 or 2 sessions.
Maximum of 60 participants per hour

ASSEMBLIES
Never before has science been so dramatic (in a very good way)! The Outreach team presents auditorium-styled programs for the entire school, featuring 50 minutes of cool concepts, impressive displays, and plenty of student involvement! Serves an audience of any size.

$400 plus mileage for 1 session.
Additional hours: $200 each

TRY-THIS-AT-HOME SCIENCE
Help your students take science outside of the classroom with our presentation of experiments they can pursue at home! We end the presentation with hands-off demonstrations using liquid nitrogen and dry ice.

TALKS WITH LASERS
Talks with Lasers is an amazing lecture and lightshow that describes how lasers work, their history, and how they are used in a variety of settings. Presenter Mike Gould is an internationally-recognized laser artist who creates laser light installations for art galleries, museums, and art events.

$900 for 1 session. $1600 for 2 sessions.

CUSTOM PROGRAMS
We can customize any program—you never know what’s possible until you ask!

FOR MORE INFORMATION:
Contact the Outreach Managers at outreach@aahom.org
aahom.org/outreach
734. 995. 5439

PREMIUM STEM FAMILY NIGHT SPOTLIGHT
WIND ENERGY NIGHT
Explore the wonders of Wind Energy with this new Premium STEM Family Night. We offer you a wide range of Wind Energy related activities and demonstrations. Make a mini wind mill and test out its power! Want to know how windy it is in your neighborhood? Make your own anemometer and take it home to test! This program is great for middle school audiences. You provide 15 volunteers and we’ll fill 15 of your tables with creative hands-on activities and demonstrations.

This project was funded with the support from the U.S. Department of Energy and in partnership with the City of Ann Arbor Energy Office.
Virtually Anywhere!

DISTANCE LEARNING

Experience live, interactive Ann Arbor Hands-On Museum programs right in your classroom!

Our educators use videoconferencing technology to share science and math activities with your students, engaging them in a dynamic, hands-on learning experience.

Connect from anywhere!
We have the capability to allow ANY school to connect to our Museum virtually. Whether you have the traditional H.323 videoconferencing system or a computer with a webcam, speakers, and microphone, you can bring our Distance Learning programs into your classroom.

WE PROVIDE:
• A 50-minute interactive program
• A kit with materials for interactive experiments for 30 students
• A Teacher’s Guide to prepare you, your classroom, and your students before the experience
• Extension activities and resources for further exploration

REGISTRATION
• Dates and times for distance learning programs are scheduled by request.
• Programs should be scheduled three weeks in advance.
• Book online through the Center for Interactive Learning and Collaboration at www.cilc.org (search for “Ann Arbor Hands-On Museum”)

FOR MORE INFORMATION: Contact the Distance Learning Manager at
distancelearning@aahom.org
734. 995. 5439
“What a wonderful experience! The kids had great fun today.”

**EDUCATOR, ILLINOIS**

**THE FIVE SENSES**
*GRADES PreK–K*

**FEE:** $145 (+$15 shipping)

Ever wonder why you can smell, hear, taste, see, and feel? Come find out how your senses help you discover the world around you.

**CRITTERS IN THE COLD**
*GRADES PreK–2*

**FEE:** Cost $145 (+$15 shipping)

Touch “blubber”, feathers, and more as we learn how animals adapt to extreme weather. We’ll go on a virtual trip to Antarctica together.

**HALLOWEEN SLIME TIME**
*GRADES PreK–8*

**Available October only**

**FEE:** $145 (+$15 shipping)

Is it a solid, liquid, gas, or something even spookier? Make two kinds of slime as we investigate the states of matter.

**SLIME TIME AND THE STATES OF MATTER**
*GRADES PreK–8*

**FEE:** $145 (+$15 shipping)

Explore the three states of matter by making two types of slime. Get up and moving to determine what state your matter is in!

**AHOY! THE WONDERS OF WATER**
*GRADES 1–4*

**FEE:** $145 (+$15 shipping)

Land Ho! Go on a high seas adventure examining the wondrous properties of water. Come explore with a series of hands-on experiments with Captain Waterpants as your guide.

**THE FOSSIL RECORD**
*GRADES 3–5*

**FEE:** $160 (+$15 shipping)

Take a look at actual fossils, discover the clues that they hide, and learn how to interpret their stories which unfolded millions of years ago.

**FRACTION INTERACTIONS**
*GRADES 3–5*

**FEE:** $160 (+$15 shipping)

It’s the fraction game show! Find out how much you know about fractions by becoming a game show contestant—can you survive three rounds of fraction challenges?

**COW EYE DISSECTIONS**
*GRADES 5–8*

**FEE:** $200 (+$15 shipping)

Get a closer look at the anatomy of the eye and how it works together with the brain to create visual images when we dissect real cow eyes. Museum provides cow eyes, gloves, and safety glasses (yours to keep). School must provide its own dissection tools.
**OWLS FROM THE INSIDE OUT**

**GRADES 3–8**

*Available November–May (Wednesdays only)*

**FEE:** $200 (+$15 shipping)

Leslie Science & Nature Center brings **LIVE** owls to you as we explore predatory adaptations and behavior. We dissect owl pellets and identify owls’ favorite prey.

**COLD BLOODED CLASSIFICATION: REPTILES**

**GRADES K–12**

*Available November–May (Tuesdays only)*

**FEE:** $175 (+$15 shipping)

Leslie Science & Nature Center joins us with **LIVE** reptiles as we explore what makes a reptile a reptile. Feel the snake or lizard skin specimens we send you while you learn the adaptations that make these animals so successful in the wild.

**WALKING UP A FOOD CHAIN**

**GRADES K–12**

*Available November–May (Tuesdays only)*

**FEE:** $175 (+$15 shipping)

Together with the Leslie Science & Nature Center, we will create a food chain using **LIVE** animals (hawk/owl, snake, frog, spider, and roach). Along the way, we will discuss how they survive in the wild.

**FOR MORE INFORMATION:** Contact the Distance Learning Manager at
distancelearning@aahom.org
aahom.org/distancelearning
734. 995. 5439

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**SPECIAL GROUP EVENTS**

From your toddlers and teens to your coworkers, let us help you create unforgettable events for everyone. Call or email education@aahom.org, or check online for more information. To register for any of these events, contact registrar@aahom.org.

**YOUR NIGHT IN THE MUSEUM**

Do you want a remarkable, unique night? Plan a date for your school or large group to spend a fun, customized evening at the Museum. Your night will include dinner, educational workshops, and time to explore our exciting exhibits after hours. Great for kicking off the school year or celebrating achievements!

Cost: $20/person

**TEACHER PROFESSIONAL DEVELOPMENT**

Join us for fast-paced, hands-on teacher workshops that provide preschool through middle school educators with new tools for incorporating interactive science and math activities into the classroom. We offer professional development opportunities both at the Museum and at your school.

Call 734. 995. 5439 or email profdev@aahom.org for our upcoming events.

**FAMILY PROGRAMS**

We offer many exciting educational programs for families as well! From evening workshops and weekend performers to school break activities, there is always something going on at the Museum. Visit our www.aahom.org/events for the most up-to-date information!
Education Programs
Our mission is to educate and inspire children and adults to discover, understand, and respect their natural environment.
AT LESLIE SCIENCE & NATURE CENTER (LSNC), we offer three preschool field trip programs that get your students outside, active, and learning in our wonderful Black Pond Woods.

Sensing Nature

AVAILABLE: September–June

How do animals use their sense of sight, smell, touch, taste, and hearing? Students will discover how animals and humans use their sense to survive by observing a live animal up close, exploring stops along our outdoor Sensory Nature Trail, and much more. Your preschoolers’ five senses are sure to be engaged!

Fall

AVAILABLE: September–November

Explore fields and forests to learn how plants and animals prepare for winter through an enchanting autumn puppet show. Your students will have a close-up and friendly encounter with a live animal and a discovery hike, enabling them to experience the joys of fall.

Spring

AVAILABLE: March–June

Celebrate the birth of spring! A fun-filled puppet show will captivate and educate your students about animal life in springtime. Visit a live animal and enjoy an outdoor walk through the woods and prairies while discovering the eagerly anticipated signs of spring.

ADDITIONAL PROGRAM INFORMATION

DURATION: 1.5 hours

GROUP SIZE: 60 maximum

AGE: 3–5 years

COST: $5 per child, including siblings, $75 minimum, no charge for adults

WEATHER AND LOCATION: All of our programs are seasonally appropriate and take place outdoors. Please make sure your preschoolers and chaperones are properly dressed for the weather! In the case of extreme weather, we will move some activities indoors, focusing on the same themes and concepts.

PARKING: Parking can be limited and large groups are encouraged to carpool.

CANCELLATIONS: All LSNC school programs take place rain or shine. If your school is cancelled, or LSNC deems the weather is unsafe, we will work to reschedule your program within the school year based on schedule availability, or refund if necessary. Non-weather related cancellations must occur 48 hours in advance, or a $75 processing fee will be charged. The $75 fee is applied to any cancellation whether it is an entire organization, or one scheduled class from a multi-class visit.

PAYMENT: Final payments must be made the day of the program, unless otherwise arranged by LSNC.

FOR MORE INFORMATION OR TO SCHEDULE A PROGRAM: Contact us at 734.997.1553.
LET LSNC ENGAGE your preschoolers’ young, curious, and growing minds with programs featuring our amazing animals.

Each program includes creative play, a hands-on activity, a close look at one of our live animals, and a reading of a favorite children’s book.

Radical Reptiles

**AVAILABLE:** Year round

After a reptile story, up close investigations of shells, scales and other specimens will help us see why reptiles are so successful. Then a visit from some live reptiles will captivate and amaze your preschoolers as they learn about these often misunderstood animals.

Silent Feathered Friends

**AVAILABLE:** Year round

Young students let their imaginations take flight as we spin an owl tale. After the story, students enjoy hands-on experiences with our specimens and meet a native Michigan owl.

Where Animals Winter

**AVAILABLE:** November–March

With a story and a visit from one of our animals, students will learn about how animals survive the winter with hibernation, migration, and staying here and staying active!

**ADDITIONAL PROGRAM INFORMATION**

**DURATION:** 45 minutes

**GROUP SIZE:** No more than 20 students

**AGES:** 3–5 years

**NOTE:** We may request teacher assistance for some hands-on activities.

**COST:** Pricing starts at $120 and is based on the distance from LSNC and number of programs. **Note:** Discounts for multiple programs apply only to programs held on the same day.

**CANCELLATIONS:** Please see our cancellation policy online. Any questions regarding a cancellation can be addressed by emailing info@lesliesnc.org or by calling 734.997.1553.

**CALL:** 734.997.1553. Please have the following information ready before you call:
- Teacher name & phone number
- School or Troop name & address
- Ideal dates & class size
- Program choice

You may also ask about customizing our programs.
WE STRIVE TO PROVIDE PARTICIPANTS with experiences that foster curiosity about the natural world and promote environmental literacy through the lens of Michigan’s natural history and resources.

All of our programs put students at the center of learning by incorporating activities that:

• engage multiple learning styles and intelligences
• provide sensory-based experiences
• allow participants to DO SCIENCE

We offer 6 different field trip opportunities that get your students outside, active, and learning in our wonderful Black Pond Woods.

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**Sensing Nature***

**AVAILABLE:** September–June  
**GRADES:** K–1  
**PROGRAM LENGTH:** 1.5 hours

How do animals use their sense of sight, smell, touch, taste, and hearing? Students will discover how animals and humans use their senses to survive by observing a live animal up close, exploring stops along our outdoor Sensory Nature Trail, and much more! Your students’ senses are sure to be engaged!

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**Tremendous Trees**

**AVAILABLE:** September–November; March–June  
**GRADES:** 3–5  
**PROGRAM LENGTH:** 2 hours

What would we be without trees? Students will explore the plant that provides us with life supporting resource through hands-on exploration, identification, and a hike through where so many trees call their home—the woods!

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**Explore Black Pond**

**AVAILABLE:** September–October; April–June  
**GRADES:** 1–5  
**PROGRAM LENGTH:** 2 hours

What is Black Pond? Through hands-on exploration, inquiry, and observation, students will discover what unique organisms that call black pond, and the woods surrounding it, home. Students will hike to our vernal pond and meet an animal that is especially adapted to the habitat.

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**Beaks, Feathers, and Talons**

**AVAILABLE:** September–November; March–June  
**GRADES:** 3–5  
**PROGRAM LENGTH:** 2 hours

LSNC’s resident raptors help us teach this lesson about Michigan’s native birds. Students will learn about bird adaptations and discover how they help them survive in the wild. They will also take a guided bird hike with binoculars, run an experiment on beak designs, and meet one of our birds up close.
**Winter Woods**

**AVAILABLE:** December–February  
**GRADES:** K–4  
**PROGRAM LENGTH:** 1.5 hours

What do animals do in the winter? Students will discover how both plants and animals prepare themselves for survival during Michigan’s harsh winters through hands-on experiments, observations, a hike through the woods, and a closer look at one of Michigan’s native animals.

**Insect Investigations***

**AVAILABLE:** April–June  
**GRADES:** 1–3  
**PROGRAM LENGTH:** 1.5 hours

By exploring and observing specimens and live animals, finding insects in their native habitat, and playing interactive games, students will discover what makes an animal an insect and how our world would look very different without them.

**ADDITIONAL PROGRAM INFORMATION**

**AVAILABILITY:** September–June  
**GRADES:** Varies, K–5  
**PROGRAM LENGTHS:** 1.5–2 hours  
**GROUP SIZE:** 60 maximum; 75 maximum for programs marked (*)

**COST:** $6 per child, including siblings, $90 minimum, no charge for adult chaperones

**LUNCH:** There is a $25 charge to have your lunch on-site. Lunch needs to be scheduled ahead of time. If your group combines two programs, the lunchtime fee will be waived.

**WEATHER AND LOCATION:** All of our programs are seasonally appropriate and take place outdoors. Please make sure students are properly dressed for the weather. In the case of extreme weather, we will move some activities indoors, focusing on the same themes and concepts.

**CANCELLATIONS:** LSNC school programs take place rain or shine. If your school is cancelled, or LSNC deems the weather is unsafe, we will work to reschedule your program within the school year based on schedule availability or refund if necessary. Non-weather related cancellations must occur 48 hours in advance, or a $75 processing fee will be charged. The $75 fee is applied to any cancellation whether it is an entire organization or one scheduled class from a multi-class visit.

Final payments must be made the day of the program, unless otherwise arranged by LSNC.

**FOR MORE INFORMATION OR TO SCHEDULE A PROGRAM,**  
contact us at 734.997.1553.
**Silent Feathered Friends**

**AVAILABLE FOR GRADES:** K

Young students let their imaginations take flight as we spin an owl tale. After the story, students enjoy hands-on experiences with our specimens and meet a native Michigan owl.

**What Does That Habitat Need?**

**AVAILABLE FOR GRADES:** K–5

After meeting and learning about different species of live insects, students will attempt to determine what they need in their habitat to survive. Based on what they’ve learned, they will then construct a habitat for an insect and observe as it gets to know its new home.
“Youth gained respect for animals they either previously didn’t think about or were scared of.” SHANNON, EDUCATOR

Hunters of the Sky*

AVAILABLE FOR GRADES: 1–12

It’s all about survival! Three engaging raptors (such as a hawk, owl, falcon) will visit your site to demonstrate and model their amazing survival characteristics and techniques. Hands-on explorations of feathers, skulls, and other bird parts provide a stimulating introduction to the Hunters of the Sky. Program delivery will be modified depending on audience age and requested key concepts.

This program may accommodate more than 30 students at once.

Fur, Feathers, and Scales

AVAILABLE FOR GRADES: 1–3

Classification made fun! Students will compare, contrast and classify live animals to learn what makes mammals, birds, reptiles, and amphibians different. They will also identify and learn about their adaptations for survival.

Cold Blooded Classification

AVAILABLE FOR GRADES: 1–5

We bring live reptiles and amphibians into your class for observation and comparison. Your students will participate in an experiment that will help illustrate the adaptations, behavior, and physical structures of these incredible cold blooded animals.

Understanding Owls*

AVAILABLE FOR GRADES: 1–12

Our owls will engage, delight, and educate your students during a personal visit to your classroom. Classification, conservation, and survival techniques are just a few of the topics we will explore by observing live birds. Students will be amazed as they discover what life is like for a nighttime predator through hands-on activities.

This program may accommodate more than 30 students at once.

Where Does That Snake Live?

AVAILABLE FOR GRADES: K–5

Practice observation skills to pick up the subtle cues that help us to understand the natural world. After meeting different snakes up close, students will learn to use the scientific method as they attempt to discover one of the snake’s natural habitats. Then we’ll perform an experiment to test the students’ hypotheses using live snakes.
Walking Down a Food Chain*

**AVAILABLE FOR GRADES:** K–12

Together we will construct a live food chain as your students meet a raptor, reptile, amphibian, arachnid, and an insect. Along the way we discuss how these animals’ lives are connected and learn about the delicate balance that allows them to survive both individually and together as wildlife who share a habitat.

Nature’s Recyclers*

**AVAILABLE FOR GRADES:** 4–12

*Not available during summer*

While meeting live roaches, rodents, and a turkey vulture, your students will learn the important role that scavengers and decomposers play in our everyday lives. Meeting these underappreciated recyclers will prove to be an experience that you and your students will not forget.

**ADDITIONAL PROGRAM INFORMATION**

**DURATION:** 1 hour; if more than one session is planned, 15 minutes must be scheduled in-between for material resets.

**COST:** $160 starting fee per session, with $100 fee for each additional session. May include a mileage fee depending on location. Programs with (*) begin at $180 per session, with a $125 fee for each additional session.

**GROUP SIZE:** 30 maximum, unless otherwise noted.

**SET-UP AND LOCATION:** LSNC staff will arrive at least 15 minutes prior to program to begin setting up. Programs require an open floor space with at least six feet between the staffer and the audience, and a six foot table.

**CANCELLATION:** Please see our cancellation policy online. Any questions regarding a cancellation can be addressed by emailing info@lesliesnc.org or by calling 734.997.1553.
LOOKING TO EXTEND a school day or add a science component to your existing afterschool programs? LSNC can take care of the planning and programming!

By focusing on key concepts, LSNC’s educators are able to create exciting, innovative, and engaging programs that allow students hands-on experience with scientific concepts.

Each program is one hour long, and themes may include live animal presentations, experiments, games, crafts, and other hands-on learning activities.

ADDITIONAL PROGRAM INFORMATION

- **AGES:** Grades 1–5
- **AVAILABLE:** During the school year
- **TOPICS INCLUDE:**
  - Backyard Birding
  - Bubble Science
  - Classification
  - Insects
  - Life Cycles
  - Michigan
  - Nature’s Recyclers
  - Owls
  - Reptiles & Amphibians
  - Pond Study
  - Water Journey
- **PRICING:** LSNC Afterschool programs accommodate up to 20 students starting at $120. Multiple programs scheduled on the same day at the same location may be eligible for discounts. A mileage fee may be added depending on your location.
- **PLANNING YOUR PROGRAM:** Call us at 734.997.1553 to arrange a program. Please have the following information ready before you call.
  - Contact name & phone number
  - School name & address
  - Ideal dates & group size
NATURE EXPLORATION, OBSERVATION, AND DISCOVERY are key elements to all of our scout programs!

Through hands-on activities, guided hikes, games, and journaling, we provide scouts with the opportunity to learn about wildlife and improve their outdoor skills in an engaging, memorable way! Your troop may choose a two-hour program or an overnight program from the topics below. We will complete most, if not all, of the requirements, but the adventure loop or pin itself is not included.

To schedule a program or for more information, call us at 734. 997. 1553.

TWO-HOUR PROGRAM

FEE: $9 per scout, with minimum payment of $90. No charge for adults.

AVAILABILITY: After school or camp hours, evenings, and weekends. All year long.

OVERNIGHT PROGRAM

FEE: $30 per scout, with minimum payment of $300, maximum 16 scouts. No charge for adults.

AVAILABILITY: 6pm–10 am, Friday–Saturday or Saturday–Sunday, September–June. July and August: Saturday nights only.

ADDITIONAL: Includes staff guiding your troop in two adventures of your choosing, a campfire, and breakfast. Groups sleep in the DTE Energy House.
Camper  OVERNIGHT PROGRAM ONLY

RECOMMENDED LEVEL: Wolves, Bears, and Webelos

Join us for an evening adventure! Scouts will learn how they can properly prepare for a camp-out adventure by cooking dinner over a fire they make themselves, singing camp songs, practice pitching a tent, reviewing the Leave No Trace ethics, and going on a guided night hike.

Hiker

RECOMMENDED LEVEL: Tigers and Wolves

Scouts will learn how to properly prepare for a hike in the woods, and then hit the trails! Through activities, games, and a hike we will discover what is “essential,” and how we can “leave no trace” all while exploring the wildlife—both in Black Pond Woods and in the Critter House—we are trying to protect!

Finding Your Way

RECOMMENDED LEVEL: Wolves

Learn how to navigate the trails at LSNC! Scouts will learn how to use a compass, create their own maps, and go on a scavenger hunt using their new skills.

Into the Wild

RECOMMENDED LEVEL: Webelos

Scouts will learn the importance of observation and identification as they explore the special habitat of Black Pond Woods and take a trip out to our vernal pond. Scouts will be introduced to the method of nature journaling and the S’s of birding to practice in their own back yards.

Fur, Feathers, and Ferns

RECOMMENDED LEVEL: Bears

Scouts will take a hike on the Black Pond Woods trail and discover what plants and animals call this place home, while also exploring how cultivated plants thrive in Project Grow’s gardens. Scouts will get the opportunity to meet and observe one native species up close and learn about the adaptions it has that allow it to survive and thrive.

Into the Woods

RECOMMENDED LEVEL: Webelos

Where would we be without trees? Scouts will discover the vital role these plants play in an ecosystem and our own lives through a variety of activities that allow them to explore and identify the trees of Black Pond Woods.
YOUR TROOP may choose a two-hour program or an overnight program from the topics listed here.

We will complete most, if not all, of the requirements but the badge itself is not included. Come join us for a wonderful experience enjoying the great outdoors!

To schedule a program or for more information, call us at 734. 997. 1553.

TWO-HOUR PROGRAM

FEE: $9 per scout, with minimum payment of $90. No charge for adults.

AVAILABILITY: After school or camp hours, evenings, and weekends. All year long.

OVERNIGHT PROGRAM

FEE: $30 per scout, with minimum payment of $300, maximum 16 scouts. No charge for adults.

AVAILABILITY: 6pm–10 am, Friday–Saturday or Saturday–Sunday, September–June. July and August: Saturday nights only.

ADDITIONAL: Includes staff guiding your troop in two adventures of your choosing, a campfire, and breakfast. Groups sleep in the DTE Energy House.
“Well worth our time! We plan to leverage more LSNC programs to support our Scout requirements.”

LARA, GIRL SCOUT LEADER

3 Cheers for Animals!

**RECOMMENDED LEVEL:** Daisy through Brownie

Here’s your chance to lend a helping hand to animals. Learn what animals need every day to survive as you hike through Black Pond Woods then help LSNC care for our animals in our Critter House.

**Senses**

**RECOMMENDED LEVEL:** Daisy through Brownie

There’s a great big world out there full of wonderful things to hear, see, smell, taste, and feel. Come and discover the natural world with all your 5 senses!

**Hiker**

**RECOMMENDED LEVEL:** Brownie

What are the 10 essentials? Should I take a map? We’ll tackle these questions and practice our new skills on a hike through Black Pond Woods.

**Letterboxer**

**RECOMMENDED LEVEL:** Brownie

Cracking codes, word scrambles, and riddles will lead us to LSNC’s hidden letterbox! Only the witty few find and stamp this secret treasure. Will your troop take the challenge?

**Bugs!**

**RECOMMENDED LEVEL:** Brownie

Under logs, on flowers, in the grass—bugs are everywhere! Roll up your sleeves and be prepared to track down different bugs. We’ll find out what they’re doing when we’re not looking and how important they are.

**Note:** Offered only in May, June, and September.

**Geocacher**

**RECOMMENDED LEVEL:** Junior–Cadette

Jump into a world-wide treasure hunt! We’ll learn how to use GPS units, find caches, and track a Travel Bug’s journey.

**Night Owl**

**RECOMMENDED LEVEL:** Junior–Cadette

What is the world like at night? Come to LSNC to find out—we’ll take a night hike to explore the woods, then meet a nocturnal animal.

**Camper** **OVERNIGHT PROGRAM ONLY**

**RECOMMENDED LEVEL:** Junior–Cadette

Learn helpful camping skills as we tie knots, build fires, and discover the world at night.