Unity in Learning is your path to **hands-on discovery**, exploration of the natural world, and experiences that take flight.
UNITY IN LEARNING
EDUCATION CATALOG

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.

### ANN ARBOR HANDS-ON MUSEUM

**For more information visit** [aahom.org/programs](http://aahom.org/programs) **or call** 734. 995. 5439.

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### LESLIE SCIENCE & NATURE CENTER

**For more information visit** [lesliesnc.org](http://lesliesnc.org) **or call** 734. 997. 1553.

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### EXPERIENCE CENTER

**AT ST. CLAIR COUNTY COMMUNITY COLLEGE**

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### YANKEE AIR MUSEUM

**For more information visit** [yankeeairmuseum.org](http://yankeeairmuseum.org) **or call** 734. 205. 9543.

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ANN ARBOR
HANDS-ON MUSEUM

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.
Exhibits to Explore

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.
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
Can you see a sound? Smell a color? Come play with us as we explore sight, sound, smell and touch!

MUSIC AND MOVEMENT
Come explore the science behind music! Kids will interact with pitch, tempo, and volume to learn how music is created.
Standard ScienceWorks Labs

**TIME:** 50-minute lab

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

**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**
Is it a solid, a liquid, or a gas? Investigate the three states of matter by measuring and mixing ingredients for two types of slime. Students are encouraged to dive hands-first into this interactive lab!

**MARVELOUS MAGNETS**
**GRADES K–3**
Make magnets float in mid-air while testing their ability to attract and repel each other! Students learn all about magnetism by using a variety of materials to explore and design.

**BRIGHT IDEA**
**GRADES 1–4**
Students will use tools such as lenses, flashlights and mirrors to investigate how light travels. Several interactive activities make up this exploration!

**FORCE AND SIMPLE MACHINES**
**GRADES 2–3**
Push and pull your way through this experiment! Discover how force affects motion and how simple machines make our lives 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. Make waves that travel through different states of matter and explore how pitch relates to frequency.

**CIRCUIT MASTERS**
**GRADES 4–5**
Investigate series and parallel circuits as well as the parts that make them work. Students get to design their own alarm and much more with our safe, interlocking electronic components.

**THE UPS AND DOWNS OF ROLLER COASTER PHYSICS**
**GRADES 4–8**
Experiment with momentum by collaborating with your peers and designing your own roller coaster. Discover how kinetic and potential energy work within the realm of physics and let the forces take you for a ride!

Premium ScienceWorks Labs

**TIME:** 50 minute lab

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

**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**
Dissect a real cow eye to investigate the inner workings of eyes! Students will be able to make connections to eye structure through this hands-on exploration.
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.

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Workshops

Get attracted to the world of magnets or fly a rocket through the air with the greatest of ease! Our educators lead your students through curriculum-based explorations of scientific topics tailored to engage specific grade levels. Maximum of 30 participants/session, unless otherwise noted.

BALANCING ACT
GRADE PreK; Maximum 20 students
Using the story *Balancing Act* by Ellen Stoll Walsh, students will use levers and fulcrums to see if they can find the perfect balance. Each 30-minute workshop will include an interactive story-time, an explorative hands-on activity, and group reflection time.

THE WIND BLEW
GRADE PreK; Maximum 20 students
Using the story *The Wind Blew* by Pat Hutchins, students will learn how wind can move objects through the air. We’ll design and engineer our own wind socks to help tell which direction the wind is blowing. Each workshop will include an interactive story time, an explorative hands-on activity, and group reflection time.

WHO SANK THE BOAT?
GRADE PreK; Maximum 20 students
Using the story *Who Sank the Boat?* by Pamela Allen, students will make and test their predictions about what objects sink and float. Each workshop will include an interactive story time, and explorative hands-on activity, and group reflection time.

PRESCHOOL UNIVERSE*
GRADE PreK; Maximum 20 students
Explore the wonders of space with a workshop that is out of this world! We will work on their engineering skills as we build our own paper rockets to launch across the classroom, then we’ll emphasize the A in STEAM to imagine and paint our own planets and the creatures who might live there.

MAGNIFICENT MAGNETS
GRADES K–2
Stick with us as we explore the golden rule of magnets, sort through what materials are magnetic or non-magnetic, and even make a magnet float in mid-air.

BUBBLES ALL AROUND
GRADES K–6
Pop in for a bubble adventure! We’ll explore the properties of bubbles, what makes them pop, and measure the biggest bubbles we can blow.

SLIME AND THE STATES OF MATTER
GRADES K–8
Is it a solid? A liquid? A gas? Your students will discover the properties of each state of matter by making our ooey, gooey slime. We’ll also discuss how molecules look and act when changing between states of matter. Students will get to take home their slime as well as a recipe to make it again at home.

THE WATER CYCLE
GRADES 2–4
Look beyond the four stages of the water cycle and get a first-hand look at the many paths of a water molecule. Where does the rain come from and where does it go after it hits the ground?

SOUND SCIENCE
GRADES 2–4
Explore the physics of sound as we experiment with waves and vibration and discover how sound travels through different substances.

*NEW! ANIMAL ADD-ON! Enhance your experience with a live animal presentation. Students will meet a live animal to learn about its habitat needs and adaptations. Additional $40 per session
LIGHT AND OPTICS  
GRADES 2–4  
Shed new light on science as we discover how light travels, reflects, and refracts through the world.

FORCE AND SIMPLE MACHINES  
GRADES 3–5  
Push and pull your way through an exploration of force and simple machines as we explore how levers and inclined planes can make your work easier.

FOSSIL RECORD  
GRADES 3–5  
We’ll take a look at actual fossils and learn about life millions of years ago. Students will get to invent their own prehistoric animals, follow along in the story of fossilization, and learn about how a paleontologist pieces together the clues hidden among the fossil record.

THE UNIVERSE:  
STARLAB PLANETARIUM*  
GRADES 3–5  
Bring the stars down to Earth with our inflatable, portable planetarium! Students will learn how to locate common constellations in the sky, listen to Greek myths related to stars, and discover how stars have been used by people throughout history.  
* Please note 20’x20’ space required for set-up

CIRCUIT MASTERS  
GRADES 3–5  
Design, build, and test your way through understanding circuits and electricity. We’ll practice our engineering skills and teamwork using our snap together circuit kits.

EGG DROP SOUP  
GRADES 3–8  
Join us in this classic egg drop experiment! Students are given credits to purchase materials to protect their egg from damage in a freefall. Concepts covered in this workshop range from gravity to economics.

ROLLER COASTERS  
IN YOUR CLASSROOM  
GRADES 3–8  
Learn about the physics of energy, force, and motion by designing, building, and testing your own roller coaster.

CRIME LAB*  
GRADES 3–8  
We’ll use science to brush up on our logical thinking and problem solving skills as students are immersed in the intriguing world of forensics. They’ll need to work together to solve our mock crime.  
* Please note this is a 90-minute workshop. Fee is $500 for up to two sessions at locations within 25 miles of the museum, $530 for locations 26–50 miles of the museum. $0.58/mile over 50 miles. $125 for each additional session.
Family Nights

EVENING PROGRAMS

STANDARD THEMES AVAILABLE:

STEM
Math and Engineering

100–500 participants per session

FAMILY SCIENCE AND MATH NIGHTS FOR PREK–8 & FAMILIES

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 interactive activities for 2 hours with their families, teachers, classmates, and friends. You provide the space, 20 tables, and 20 volunteers. We provide the rest.

NEW!

FAMILY SCIENCE AND NATURE NIGHT

Explore the wonders of science, math, and the natural world with this engaging, interactive program designed for your whole school. Students and their families can dive into the states of matter while making slime, push and pull their way to understanding forces and simple machines, study how animals adapt to their habitat, and much more as they explore 20 different STEM activities. In addition, in partnership with our sister organization, the Leslie Science and Nature Center, we’ll deliver live animal presentations where students can observe wildlife and interact with specimens such as shells and feathers.

YOUNG SCIENTIST FAMILY NIGHTS FOR PRESCHOOLERS & FAMILIES

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.
Super Science Day
DAYTIME PROGRAM

SUPER SCIENCE AND MATH DAYS
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.

Maximum of 60 participants per hour

Summer Science Fest
ALL AGES

6-ACTIVITY PACKAGE: $375
9-ACTIVITY PACKAGE: $475
12-ACTIVITY PACKAGE: $575
Our Summer Science Festival offers a wide variety of interactive, tabletop activities including science experiments, make-and-take projects, and art creations. Choose from our 6, 9, or 12 activity packages to bring a unique, interactive component to your festival, summer camp, or special event for kids of all ages.

• All packages include 2 hours of programming
• Additional hours of programming available for $150/hr
• Additional mileage charged for locations further than 50 miles from the Museum.

FOR MORE INFORMATION: Contact the Outreach Managers at:
outreach@aahom.org
aahom.org/outreach
734.995.5439

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

“What a wonderful experience! The kids had great fun today.”
EDUCATOR, ILLINOIS
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 at least 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

Virtually Anywhere!

DISTANCE LEARNING
EXPLORE YOUR FIVE SENSES  
GRADEs PreK–K  
FEE: $145 (+ $20 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: $145 (+ $20 shipping)  
Let’s take a virtual trip to Antarctica! Touch “blubber,” feathers and more as we learn how animals adapt to extreme weather. AAHOM sends materials directly to you and connects to your class using videoconferencing technology.

HALLOWEEN SLIME TIME  
GRADEs PreK–8  
Available October only  
FEE: $145 (+ $20 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 (+ $20 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!

BAT BIOLOGY  
GRADEs 1–8  
FEE: $205 (+ $20 shipping)  
Meet up to three LIVE bats with the Leslie Science and Nature Center! Join in as we take an up close look into the wondrous world of bats! Explore what makes bats so unique, why they’re important across the globe and try your hand at being an expert echo-locator using a simple tool to understand sound!

NEW!  
PARACHUTING THROUGH TIME  
GRADEs 4–8  
FEE: $145 (+ $20 shipping)  
Catch some air as you learn about the history of the parachute! See examples of early and modern parachutes then create and test your own design.

THE FOSSIL RECORD  
GRADEs 3–5  
FEE: $160 (+ $20 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 (+ $20 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 (+ $20 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 (+ $20 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 (+ $20 shipping)

Leslie Science & Nature Center joins us with **LIVE** reptiles as we explore their characteristics. Feel the snake or lizard skin specimens we send you while you learn about 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 (+ $20 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.

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**FOR MORE INFORMATION:** Contact the Science Labs Manager at:
distancelearning@aahom.org
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.

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**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 per person

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**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.

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**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!
Our mission is to create moments of discovery that inspire curiosity, exploration, and respect for STEM and the natural world. Our vision is a world where curiosity today leads to more purposeful lives tomorrow.
AT LESLIE SCIENCE & NATURE CENTER (LSNC), we offer four preschool field trip programs that get your students outside, active, and learning in the wonderful outdoors.

**Fall** SEPTEMBER–NOVEMBER

Explore fields and forests to learn how plants and animals prepare for winter through an enchanting autumn puppet show. Through games, a live animal encounter and discovery hike, your students will truly experience the joys of fall.

**Spring** 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 while discovering the eagerly anticipated signs of spring.

**Winter Woods** DECEMBER–FEBRUARY

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.

**Sensing Nature** ALL YEAR

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

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**ADDITIONAL PROGRAM INFORMATION**

**DURATION:** 1.5 hours

**GROUP SIZE:** 60 maximum

**AGE:** 3–5 years

**COST:** $6 per child, including siblings, $90 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**

Through a story, visit from live reptiles, and an up close investigations of shells, scales, and specimen preschoolers will discover what makes these often misunderstood animals unique.

**Marvelous Mammals**

Young students will explore the animals just like us! Engage in a story, investigate mammal characteristics, and meet 2 live mammals up close as we discover more about these marvelous mammals!

**Feathered Friends**

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.

**Amazing Amphibians**

From frogs to toads, salamanders to newts, explore with us as we learn about these amazing amphibians! Through a story, hands-on experiences, and meeting amphibians up close, young students will learn more about what makes these sleek, slimy amphibians unique!

**Intriguing Invertebrates**

Crawl, wiggle, and climb your way through as students discover the intriguing world of invertebrates! Students will investigate specimens, share a story, and meet live insects and arachnids to learn more about the nature of these creatures.

**ADDITIONAL PROGRAM INFORMATION**

**AVAILABLE:** All year

**DURATION:** 45 minutes

**GROUP SIZE:** 20 maximum

**AGES:** 3–5 years

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

**COST:** Pricing starts at $180 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 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 8 different field trip opportunities that get your students outside, active, and learning in our wonderful Black Pond Woods.

**Sensing Nature**

**AVAILABLE:** All year  
**GRADES:** Y5, K  
**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!

**Insect Investigations**

**AVAILABLE:** April–September  
**GRADES:** K–2  
**PROGRAM LENGTH:** 1.5 or 2 hours

After building a bug, meeting live insects, and taking a rare look into an active bee hive, students will learn what it’s like to be a bee as they attempt to gather enough nectar for the winter.

**Seeds, Sprouts, Stems**

**AVAILABLE:** All year  
**GRADES:** K–2  
**PROGRAM LENGTH:** 1.5 hours

Explore up close the living things all around us: Plants! This program features hands-on activities, a hike, and an up close look at how plants photosynthesize, grow, and more. Students will walk away understanding what plants need to thrive, obtain nutrients, and provide resources for all other living things!

**The Nature of Water**

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

What is a watershed? How does water move throughout our planet? Through hands-on exploration, inquiry, and observation, students will discover the vital role water plays in all our ecosystems. Students will take a hike through the woods, meet an animal that lives in an aquatic habitat, and understand how the water cycle works.
Tremendous Trees

**AVAILABLE:** All year  
**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!

Habitat Hunt

**AVAILABLE:** All year  
**GRADES:** K–5  
**PROGRAM LENGTH:** 1.5 or 2 hours

What is a habitat? Through guided exploration, a hike through the woods, and scientific journaling, students will discover what makes the woods a special place for the animals that inhabit it.

Beaks, Feathers, and Talons

**AVAILABLE:** All year  
**GRADES:** 3–5  
**PROGRAM LENGTH:** 2 hours

LSNC’s resident raptors help us explore bird adaptations and discover what helps them survive in the wild. Students will take a birding hike, run an experiment on beak designs, play a game, and meet one of our birds up close!

Additional Program Information

**GROUP SIZE:** 60 maximum; 75 maximum for programs marked (*)

**COST:** $7 per child, including siblings, $120 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 to extend your stay 30 minutes. 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.
What Does That Habitat Need?

AVAILABLE FOR GRADES: K–2

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.

Bat Biology

AVAILABLE FOR GRADES: K–5

Meet live bats from around the world. As the only flying mammal, bats have amazed and inspired people for a long time. Learn about the diversity of bats, how they survive and their many roles on our planet.

Nature’s Nightlife

AVAILABLE FOR GRADES: K–5

Find out what happens after the sun goes down in this exciting exploration into the world of nocturnal animals. Meet different live animals such as bats, owls, and arachnids to learn why they choose to work in the dark and how they are adapted for life at night.
“Youth gained respect for animals they either previously didn’t think about or were scared of.” SHANNON, EDUCATOR

**Fur, Feathers, and Scales**

*AVAILABLE FOR GRADES: K–2*

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: 3–5*

Engage in the world of classification as we focus on a particular cold-blooded animal group: Reptiles! By meeting live reptiles, and through hands-on activities, students will explore the adaptations that make them successful, and how scientists compare and contrast these particular cold-blooded creatures.

**Bug’s Eye View**

*AVAILABLE FOR GRADES: K–2*

Discover the importance of insects in our world. Students will explore what makes insects special by meeting live insects, learning about their life cycles, and becoming insects themselves as they waggle their way to collect nectar to survive.

**Hunters of the Sky**

*AVAILABLE FOR GRADES: K–5*

It’s all about survival! Three engaging raptors (like hawks and owls) 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.

**Understanding Owls**

*AVAILABLE FOR GRADES: K–5*

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 also get the chance for an up close look at owl pellets through an interactive dissection! New Addition: Optional Owl pellet Dissection!

This program may accommodate more than 30 students at once.

**Where Does That Snake Live?**

*AVAILABLE FOR GRADES: 3–5*

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–5

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:** 3–5

*Only available March–November*

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:** Program fees vary but start at $200 depending on type, audience and content. Please check the website for up-to-date information or call for an exact quote. Variations include: Additional fees for mileage and reduced rates for additional programs scheduled on the same day.

**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.

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Are you a homeschool, or looking to fill a unique need? Almost any outreach, field trip, or Scout program can be adjusted to fit your needs. Call today to discuss how we can work with you!
JOIN US

AT THE EXPERIENCE CENTER AT THE ST. CLAIR COUNTY COMMUNITY COLLEGE FOR SUPER SCIENCE!

The dynamic education team from The Ann Arbor Hands-On Museum and Leslie Science & Nature Center is now delivering field-trip programming at the Experience Center at Saint Clair County Community College in Port Huron! As a new partner, SC4 stretches the reach and breadth of exciting STEM and Environmental Educational programming offered by providing unique experiences and interactive exhibits.

SCHEDULE EARLY TO RESERVE YOUR SPOT. Programs are offered one Friday per month, limited space is available. $12 per student

INCLUDES:

• **Galleries and exhibits:** Dr. Bassam H. Nasr Natural Science Museum, Wind and Solar, Jacob’s Ladder, Electromagnetism, Green screen photo experience, Mineral Gallery, Fossil Dig, Bird Exhibit, and technology exhibits.

• **Live animal demonstrations**

• **Science experiments from a range of topics:** Force and motion, Magnetism, Light and optics, The Human Body, and more!

TO LEARN MORE, CONTACT:

Becky Gentner, 810. 989. 5517 / experiencecenter@sc4.edu
St. Clair County Community College,
323 Erie Street, Port Huron, MI 48061
Education Programs
Our mission is to provide unique historical and educational experiences through aviation, military, and home-front history.
At the Museum
FIELD TRIPS & SCIENCE LABS

Field Trip Information

ADMISSION

$8 per child for groups of 15 or more. All teachers, chaperones, and bus drivers are free. Groups must register in advance to receive group rates.

Admission to the museum includes a docent tour. You have many options to help enhance your trip by taking one of our Ann Arbor Hands-On Museum Science Labs, watching a movie, or experiencing flight simulation. We can also come to your site with our Outreach workshops or Distance Learning programs.

We request 1 adult chaperone for every 5 children.

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

Complete a request form to book your Yankee Air Museum fieldtrip by visiting Unityinlearning.org. For questions or more information contact our Registrar at 734. 205. 9543 or fieldtrips@aahom.org.
Standard Science Labs

TIME: 50-minute lab

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

CAPACITY: 30 students per class

ALL ABOUT THE SUN*
PRESCHOOL
Have you ever wondered where the sun goes at night, why your shadow can be big or small, or how plants make your food from the sun? The littlest scientists will investigate our nearest star.
*This lab will only be 30 minutes in length.

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.

MARVELOUS MAGNETS
GRADES K–3
Learn about magnets as we sort materials into magnetic and non-magnetic groups. 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 and optics as we learn how light travels, and the difference between reflection and refraction. Discover what color light really is using flashlights, lenses, special glasses, and more.

FORCE AND SIMPLE MACHINES
GRADES 2–3
Push and pull your way through an exploration of force and simple machines. We’ll learn the golden rule of simple machines and explore how levers and inclined planes can make your work easier!

SOUND SCIENCE
GRADES 3–5
Discover the energy in sound waves and make waves that travel through different states of matter. Listen for pitch and frequency, and discover the amazing physics of sound.

CIRCUIT MASTERS
GRADES 4–5
Students will be “wired” after this electrifying introduction to circuits! Explore two types of circuits and the parts that make them work. Build a light powered alarm and more with our safe, interlocking electronic components.

THE UPS AND DOWNS OF ROLLER COASTER PHYSICS
GRADES 4–8
Students will experiment with momentum, and kinetic and potential energy by building roller coasters in teams. Let the forces of physics take you for a ride!
**Premium Labs**

**TIME:** 50 minute lab

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

**CAPACITY:** 30 students per class

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**THE FUN OF FLIGHT**
**GRADES K–3**
We’ll push and pull our way to successful flights in this lab! Students will learn about the engineering process as they create a paper rocket and chart how far it flies.

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**CRASH LANDING**
**GRADES 3–7**
What goes up must come down in this classic egg drop experiment! Students are given credits to purchase materials to protect their egg from damage in freefall. Concepts in this workshop range from gravity to economics.

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**FLIGHT SCHOOL**
**GRADES 4–8**
Design and create your own flying machine! Students will learn about the principles of flight while creating a variety of airplanes to test within the lab.

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**THIS IS ROCKET SCIENCE**
**GRADES 5–8**
Blast off into science as you learn about thrust, trajectory, center of gravity, and all the science of rocketry.
ADDITIONAL ON-SITE OPTIONS

Movies

**FEE:** $2 per student

Movie can be added during a lunch break (lunch room fee waved)

**FLY GIRLS**
A film documenting the important work of Women Air Service Pilots (WASPs) during WWII (50 min).

**THE WILLOW RUN STORY**
A 1940s Ford Motor Company promotional film in Black and White about the Willow Run Bomber Plant (55 min).

**THUNDERBIRDS**
A Movie about the USAF Thunderbirds and the Teamwork that Binds Them Together (50 min).

**ANDY MEETS THE BLUE ANGELS**
An animated feature about an adventure meeting the USN Blue Angels (30 min).

Flight Simulator*

**FEE:** $5 per student for 5 minutes of flight time

Experience the thrill of flight from the pilot’s seat. Use a flight stick and rudder pedals to control a wide variety of civilian and military aircraft while immersed in a full sensory experience. Try your hand at navigating anything from the Wright Flyer, an Airbus A-380 double deck Jumbo jet, or even a F-35 fighters. These are best suited to pilots of at least 8 years of age. In addition to being fun to fly, you can also learn basic flight procedures and navigation skills. From takeoff to landing, you are in control.

*Limited to groups with less than 25 students, based on availability
WORKSHOPS: 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.

CAPACITY: Maximum of 30 participants per 50 minute session.

FEES: $340 for up to two sessions at locations within 25 miles of the museum, $370 for locations 26-50 miles of the museum. $0.58/mile over 50 miles. Discounts available for booking 9+ workshops.

THE UNIVERSE*
GRADES 2–5
Bring the stars down to Earth with our inflatable, portable planetarium! Students will learn how to locate common constellations in the sky, listen to Greek myths related to stars, and discover how stars have been used by people throughout history. *Please note: Special space requirements

CRASH LANDING
GRADES 3–7
What goes up must come down in this classic egg drop experiment! Students are given credits to purchase materials to protect their egg from damage in a freefall. Concepts covered in this workshop range from gravity to economics.

ROLLER COASTERS IN YOUR CLASSROOM
GRADES 4–8
Learn about the physics of energy, force, and motion by designing, building, and testing your own roller coaster.

WIND ENERGY
GRADES 4–8
Discover how wind can be harnessed to make electricity and build a working wind turbine! Experiment with blade design and other variables to find the most efficient design for a wind power generator.
Experience live, interactive Ann Arbor Hands-On Museum programs right in your classroom! Our educators use video-conferencing technology to share science and history activities with your students, engaging them in a dynamic, hands-on learning experience.

**CAPACITY:** Maximum of 30 participants per 50 minute session

**FEE:** $145 + $15 shipping fee. This includes a kit of materials for interactive experiments for 30 students

**PARACHUTING THROUGH TIME**
**GRADES 4–8**
Catch some air as you learn about the history of the parachute. See examples of early and modern parachutes then create and test your own design.