

School Programs



2011-2012

Discover the Wonders of Nature

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Dear Educator:

We’re getting ready for another great year of programs, and the exciting news is we’re now operating out of the newly renovated Visitor Center! We strive to provide engaging, fun programs that complement classroom curriculum. Thus, each program is correlated to grade level content expectations. We are also happy to provide a social story for any student with special needs. Additionally, we provide pre- and post-trip materials for most of our programs, which are sent with your complete confirmation approximately one month prior to the program.

Budgets are tight everywhere we look. We attempt to ease the financial pain by keeping our program costs low. Also, I am more than happy to write a letter of support for a grant application or talk with your parent-teacher organization. If transportation is an issue, perhaps an “On the Road” program or a Traveling Trunk will meet your needs. Ultimately, we want to provide you with quality programs at a minimal cost.

If you don’t find exactly what you’re looking for in this brochure, please give us a call and we can arrange a custom program. If you have any other questions, please feel free to contact me at 989-631-0830 or rlarimore@chippewanaturecenter.org. Together, we can offer outstanding science- and social studies-based programs!

Sincerely,



Rachel Larimore
Director of Education

Chippewa Nature Center, 400 S. Badour Rd., Midland, MI 48640
989-631-0830, 989-631-7070 (fax), www.chippewanaturecenter.org

School Programs at CNC

Animal Classification

Grade: 3

When: Sept–Oct, May

Length: 1.5–2 hours

Max. students: 30

State correlations:

Science: S.IP.03.12; S.IA.03.13; L.OL.03.32; L.OL.03.42; L.EV.03.12

There are more than 50,000 species of vertebrates in the world. During this program students will learn basic classifying skills by discussing and understanding basic characteristics of vertebrate animals. Activities related to birds, mammals, fish, amphibians, and reptiles will bring animal classification to life in a fun, hands-on way.

Archaeology

Grade: 4–8

When: Year-round

Length: 2 or 3.5 hours

Max. students: 30

(3.5 hr. program includes 30 min. lunch break)

Location: Indoors

State correlations:

Science: K–7 S.IP *Social Studies:* 4–H3.0.4; 5–8–K1, P2

This class introduces students to basic archaeological concepts and excavation techniques. Students identify potential archaeological sites by analyzing historical research, investigate changes in technologies over time, and have a chance to excavate “artifacts” in indoor pits. The 3.5-hour class includes an additional “artifacts of the next century” activity and additional time for excavation.

Aquatic Life

Grade: 3–5

When: Sept–Oct, May

Length: 2 hours

Max. students: 30

State correlations:

Science: L.EV.03.11, 12; L.OL.03.32, 42

This class introduces students to living and non-living components of a pond ecosystem. Students discover what makes aquatic plants and animals specially adapted for life in the water. Students will also explore the edges of a pond using dippers and nets. Microscopes and field guides help students identify the organisms.

Advanced Aquatic Life

Grade: 6–8

When: Sept–Oct, May

Length: 2–4 hours

Max. students: 30

State correlations:

Science: L.EC.06.11, 21; L.EC.06.31, 32

Expanding on the “Aquatic Life” program, this program will allow students to delve into the dynamics of an aquatic ecosystem and invertebrate identification. Students will use advanced collecting equipment and testing techniques including those related to water chemistry.

Cluck, Oink, Moo: Farm Animals Work for You!

Grade: Pre-1

When: Sept–mid-Oct, May

Length: 1 hr (Pre-K) or 1.5 hrs (1st grade)

Max. students: 30

State correlations:

Science: L.OL.00.11, 12; L.HE.01.12

Social Studies: K–G5.0.1; 1–G5.0.1

Chickens, pigs, cows, and sheep are important to our daily lives. Students will learn that farm animals provide us with foods, but also non-food products such as leather and wool. Activities include milking a pretend cow, making butter, and examining non-food products.

Ecosystem Succession

Grade: 6–8

When: Sept–Oct, May

Length: 2–2.5 hours

Max. students: 60

State correlations:

Science: L.EC.06.11, 21, 23, 31

Students will experience succession first-hand as they travel through the woods, edge, and field ecosystems in this hands-on program. Teams of scientists will gather data on biotic (living) and abiotic (non-living) factors as they discover the changes that happen in an ecosystem over time. Their own data, coupled with aerial photographs, will help them understand the process of succession and the relationships between the different components of the ecosystem.

School Programs at CNC



Looking for a social studies based program? Visit the 1870 Log Schoolhouse (shown here) and Homestead Farm!

From Forest to Mill—Lumbering in Michigan

Grade: 3–5 **When:** Sept–Oct; mid-April–May
Length: 2 hours **Max. students:** 30
State correlations:

Science: S.RS.03.18, E.ES.03.51, 52

Social Studies: 3–G5.01.1, 2; 3–E1.0.3, 4

In the late 1800s pine was king in the Saginaw Valley and lumbering was big business! Discover how Michigan's vast pine forests were forever changed by the lumberman's axe and saw. In this program students assume the roles of lumbermen as they perform jobs including sawing and rafting logs, using marking hammers, and loading a logging sled. They will also see how lumbering was a cooperative process by working together to get logs to the "mill."

Homestead Holiday

Grade: K–2 **When:** Late Nov.–Dec.
Length: 1.5 hours **Max. students:** 30
Location: Indoors
State correlations:

Social Studies: 1–H2.0.6

Students experience some of the ways settlers prepared for the holidays in 1870. Visiting both the farmhouse and the log schoolhouse, students participate in holiday activities. They hear a story, learn about evergreens, and make a sachet to take home.

Homestead Life

Grade: 1–12 **When:** Sept–mid-Nov, mid-April–May
Length: 1–2 hours **Max. students:** 30

State correlations:

Social Studies: 1–H2.0.5, 6; 1–G2.0.1; 1–G5.0.1; 1–E1.0.2; 4–H3.0.4, 8; 4–G5.0.1

During this class, students will explore the farm and cabin. A visit to see out buildings and live farm animals will illustrate the hard-working, self-reliant lives of 1870 farm families. Chores vary seasonally, but could include grinding corn, sawing logs, planting seeds, or making rope.

Incredible Insects!

Grade: K–8 **When:** Sept–Oct, mid-April–May
Length: K–2, 1.5hrs; 3–8, 2 hrs **Max. students:** 60

State correlations:

Science: S.IP.01.11, 14; L.OL.01.21; L.HE.01.11, L.OL.03.42

Students will gain an understanding and appreciation of the characteristics, diversity, and importance of insects. Kindergarten–2nd-grade students will learn basic characteristics, life cycles, and collection of insects. Third to 5th graders will also discuss behaviors and insect functions in the food web. The oldest students will also discuss humans' interactions with insects and advanced collecting methods.



Log Schoolhouse

Grade: 1–12 **When:** Sept–mid-Nov, April–May
Length: 1.5–2 hours **Max. students:** 30

State correlations:

Social Studies: 1–H2.0.5, 6; 4–H3.0.4

Your educator, portraying an 1870 school teacher, will lead a day of lessons including subjects such as natural history, geography, reading, and arithmetic. Students also enjoy recess with period games including hoops, stilts, and graces.

School Programs at CNC

Maple Syrup

Grade: 2–12*

When: Late Feb–mid-March

(Pre-1 see “Sugarbush” p. 10)

Length: 1.5 hrs

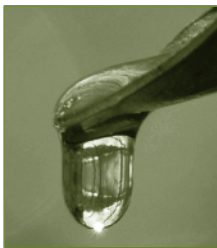
Max. students: 60

State correlations:

Science: L.OL.03.32; L.OL.03.41; E.ES.03.41; L.OL.04.15; P.EN.07.43; L.OL.07.63

Social Studies: 3–G5.0.1, 2; 4–G2.0.1, 2

Come enjoy the first crop harvested in Michigan each year—maple syrup! This program begins indoors with a brief puppet show covering the history of sap collecting as well as the science behind this exciting spring happening. Students then go to the woods to identify maples and other trees, all the while learning about food storage and photosynthesis. Students help us with our production by tapping a tree. They then visit the sugarhouse to see matter change before their very eyes as the vapor rises and the syrup thickens. *Grades 2-5 will enjoy a puppet show on the ins and outs of maple syruping. **Check out our special maple syrup program fee rate on page 12!**



Native American Uses of Natural Resources

Grade: 3–12

When: Sept–May

Length: 2 or 4 hours

Max. students: 30

State correlations:

Social Studies: 3–H3.0.5; 3–H3.0.6; 3–G5.0.1; 3–G5.0.2; 5–U1.1.3

This class focuses on Michigan’s Woodland Indians’ use of the natural resources around them. Students visit the wigwam, try their hand at fire-making using a bow drill and making cordage. They also hear about brain-tanning hides, help to scrape a hide, and stitch a moccasin. In the 4-hour program students practice the traditional skills listed above as well as basket making, pottery, and agriculture.

Pelt to Felt: The Great Lakes Fur Trade

Grade: 3–5

When: Sept–Oct, mid-April–May

Length: 2 hours

Max. students: 30

State correlations:

Science: E.ES.03.41, 51, 52

Social Studies: 3–H3.0.5, 6; 3–G5.0.1, 2; 5–U1.4.1, 3

During this program students will experience our unique region when beaver pelts were the currency of the Great Lakes. They will see the fur trade from the perspective of a Voyageur as well as a Native American. Students will see how transportation links people and regions and how people within the region act as producers and consumers. The program culminates with a trade for goods where the students will have to weigh the costs and values of items.

Plants Around Us—A Habitat Comparison

Grade: 2

When: Sept–Oct, mid-April–May

Length: 1.5–2 hours

Max. students: 60

State correlations:

Science: L.OL.02.14

During this program students visit a meadow, woods, and pond, to carefully investigate the plants they find. Students also search for evidence of animals living in the various habitats and relying on plants to survive. They utilize scanning techniques, use hand-lenses, & collect the “ingredients” of a forest.

School Programs at CNC

Plant Cycles

Grade: 2 **When:** Sept–Oct, mid-April–May

Length: 2 hours **Max. students:** 60

State correlations:

Science: S.I.P.E.1, S.IP.02.11, S.IP.02.12, S.IP.02.13, S.IP.02.14, S.IP.02.15, L.OLE.1, L.OL.02.14, L.OLE.2, L.OL.02.22

All flowering plants share the same life cycle story, but each plant's story unfolds in a unique way. Through stories, a family photo album, guided exploration and data gathering, students will discover and explore the diversity of flowering plant life cycles in Michigan. Using games and activities students will learn what plants need to survive and how they compete with each other to meet those needs.

Ready for Winter

Grade: Pre–2 **When:** Nov.–Jan.

Length: 1–1.5* hours **Max. students:** 60

State correlations:

Science: L.OL.00.11; L.OL.01.13

During this indoor* class, students discuss how they get ready for winter. They compare their preparations with the ways animals prepare for and cope with Michigan winters. A puppet show illustrating migration, hibernation, and adaptation reinforces the concepts.

*The longer, 1.5-hour, program is for 1st and 2nd graders. These students will, in addition to the above, spend time outdoors looking for signs of animals preparing for winter.

Early registration via fax, mail, or email only, begins Aug. 1 for 2011 programs and Nov. 1 for 2012 programs. See pages 12-13 for program fees and registration information.

Seasonal Ecology

Grade: Pre–8 **When:** Year-round

Length: 1–2 hours **Max. students:** 60

State correlations:

Science: K-7 S.IP; L.OL.01.13; E.ES.01.11, 12; L.OL.02.14; L.EC.04.21

Social Studies: II.2

Discover what's happening in nature that makes a particular season unique. Students observe several natural communities. Special attention is focused on adaptations of plants and animals and the interrelationships among them. Games, scavenger hunts, and other activities using the senses help explain the concepts. In this program students will manipulate simple tools such as hand lenses to make purposeful observations of the natural world.

Seed to Supper

Grade: 2-5 **When:** Sept–Oct, May

Length: 1.5 hr (2nd-3rd grade); 2 hrs (4th-5th grade)

Max. students: 30

We cannot survive without plants to eat! At CNC's 1870 farm, students will explore how we obtain and consume food today. Depending on the season and weather children will plant, cultivate, or harvest crops. Students will learn that there are six main plant parts that can be eaten. In another, ingredients will be gathered at the Homestead that could be used to make a typical recipe.

Shades of Green—Classifying Plants

Grade: 3 **When:** Sept–Oct, May

Length: 1.5-2 hours **Max. students:** 60

State correlations:

Science: L.OL.03.31; L.OL.03.41; L.EV.03.11

Life on Earth depends on the amazing variety of plants that we classify into groups using their unique characteristics. Students will classify plants based on their observable characteristics through a variety of hands-on activities. This program teaches students to recognize the diversity of plant species and how plants are adapted to live in their natural environments.

School Programs at CNC

Soil!

Grade: 6 **When:** Sept–Oct, mid-April–May

Length: 1.5-2 hours **Max. students:** 60

State correlations:

Science: S.IP.06.11; S.IP.06.13; E.SE.06.11; E.SE.06.12; E.SE.06.13; E.SE.06.14

Soil is the critical foundation of ecosystems. In this program students will discover the importance of soil and various soil properties. Students will gather data on seven different soil properties in two different ecosystems. The program also includes activities related to soil erosion and its impact on the ecosystem.

Sugarbush

Grade: Pre–I **When:** mid-March–first week of April

Length: 1–1.5 hours (Pre, 1 hr.) **Max. students:** 60

State correlations:

Science: S.IP.00.11; L.OL.00.11; S.IP.01.11

During an indoor puppet show, puppets introduce children to the early spring maple forest. The puppets explain how maple syrup begins as tree sap, and suggests the children visit the woods to see for themselves. The outdoor time includes sensory activities to teach about sap production and the process of making syrup. Students will practice tapping a tree and visit the Sugarhouse. **See our special maple syrup program fee rate on page 12!**



Molly Maple Leaf explains the syruing process to students, then it's off to the Sugarbush to see a real tree!

Surviving the Elements

Grade: 4–12 **When:** Sept–Oct, mid-April–May

Length: 4.5 hours **Max. students:** 60

(including 30 min. lunch break)

State correlations:

Science: L.OL.04.16; L.EV.05.11, 12

Students learn a few basic survival techniques that could save their lives if lost in the woods. They are given survival scenarios and as a group learn to make decisions and take appropriate action. Students learn map and compass, fire building and fire by friction, shelter construction, and water purification skills. In addition to learning about survival skills, this is a great exercise in teambuilding!

Water, Water Everywhere

Grade: 2 **When:** Sept–Oct, May

Length: 1.5–2 hours **Max. students:** 60

State correlations:

Science: S.IP.02.11; S.IP.02.12; S.IA.02.13; P.PM.02.12; E.FE.02.11; E.FE.02.12; E.FE.02.13; E.FE.02.14; E.FE.02.21; E.FE.02.22

In this program students will discover the many ways water is essential to our daily lives, where it is found on the earth and properties of our beloved resource. From theatrical activities to scientific experiments, students will investigate the different states of water, the properties of water, and where water is found in Michigan.

School Programs at a Glance

Programs at CNC by Grade Level

Program	Pre	K	1	2	3	4	5	6	7	8	9	10	11	12
Animal Classification (p. 1)					✓									
Archaeology (p. 1)						✓	✓	✓	✓	✓				
Aquatic Life (p. 1)					✓	✓	✓							
Advanced Aquatic Life (p. 1)								✓	✓	✓				
Cluck, Oink, Moo (p. 1)	✓	✓	✓											
Ecosystem Succession (p. 1)								✓	✓	✓				
From Forest to Mill (p. 2)					✓	✓	✓							
Homestead Holiday (p. 2)		✓	✓	✓										
Homestead Life (p. 2)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Incredible Insects (p. 2)		✓	✓	✓	✓	✓	✓	✓	✓	✓				
Log Schoolhouse (p. 2)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Maple Syrup (p. 3)				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Native American... (p. 3)					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pelt to Felt (p. 3)					✓	✓	✓							
Plants Around Us (p. 3)				✓										
Plant Cycles (p. 4)				✓										
Ready for Winter (p. 4)	✓	✓	✓	✓										
Seasonal Ecology (p. 4)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Seed to Supper (p. 4)				✓	✓	✓	✓							
Shades of Green (p. 4)					✓									
Soil! (p. 5)								✓						
Sugarbush (p. 5)	✓	✓	✓											
Surviving the Elements (p. 5)							✓	✓	✓	✓	✓	✓	✓	✓
Water, Water Everywhere (p. 5)				✓										
Wetlands (p. 8)					✓	✓	✓	✓			✓	✓	✓	✓
Who Eats Whom (p. 8)					✓	✓								
Winged Wonders (p. 8)					✓	✓	✓	✓	✓	✓				
Winter Ecology (p. 8)						✓	✓	✓	✓	✓				

Early registration via fax, mail, or email begins Aug. 1 for 2011 programs and Nov. 1 for 2012 programs. See pages 12-13 for program fees and additional registration information.

School Programs at a Glance

Programs at CNC by Month

Program	Jan	Feb	Mar	Apr	May	Sep	Oct	Nov	Dec
Animal Classification (p. 1)					✓	✓	✓		
Archaeology (p. 1)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Aquatic Life (p. 1)					✓	✓	✓		
Advanced Aquatic Life (p. 1)					✓	✓	✓		
Cluck, Oink, Moo (p. 1)					✓	✓	✓		
Ecosystem Succession (p. 1)					✓	✓	✓		
From Forest to Mill (p. 2)				✓	✓	✓	✓		
Homestead Holiday (p. 2)								✓	✓
Homestead Life (p. 2)				✓	✓	✓	✓	✓	
Incredible Insects (p. 2)				✓	✓	✓	✓		
Log Schoolhouse (p. 2)				✓	✓	✓	✓	✓	
Maple Syrup (p. 3)		✓	✓						
Native American... (p. 3)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pelt to Felt (p. 3)				✓	✓	✓	✓		
Plants Around Us (p. 3)				✓	✓	✓	✓		
Plant Cycles (p. 4)				✓	✓	✓	✓		
Ready for Winter (p. 4)	✓							✓	✓
Seasonal Ecology (p. 4)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Seed to Supper (p. 4)					✓	✓	✓		
Shades of Green (p. 4)					✓	✓	✓		
Soil! (p. 5)				✓	✓	✓	✓		
Sugarbush (p. 5)			✓	✓					
Surviving the Elements (p. 5)				✓	✓	✓	✓		
Water, Water Everywhere (p. 5)					✓	✓	✓		
Wetlands (p. 8)				✓	✓	✓	✓		
Who Eats Whom (p. 8)				✓	✓	✓	✓	✓	
Winged Wonders (p. 8)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Winter Ecology (p. 8)	✓	✓							✓

“On The Road” Programs

(available Sept–May;
see pages 9-10)

Archaeology (4th-8th)
Bears, Beavers, Bats (K-5th)
Flying Feathered Friends
(2nd-8th)
Hop, Slither & Crawl (K-8th)
Invasive Exotics (9th-12th)
Michigan Geology (3rd-8th)
Nature’s Buffet (3rd-5th)
Ready for Winter (Pre-2nd;
Nov.-Jan. only)
Seasons of Change (K-5th)
Those Amazing Green
Machines (K-8th)
Vernal Pools: A Springtime
Wonder (3rd-6th)
Weather Works (3rd-6th)
Wetland Whimsy (3rd-6th)

School Programs at CNC

Wetlands

Grade: 3–6, 9–12 **When:** Sept–Oct, mid–April–May
Length: 2 hours **Max. students:** 60

State correlations:

Science: S.IP.06.11, 13; L.EC.06.11; S.IP.07.11, 13

Students experience a wetland while learning its characteristics, values, and functions. Students explore emergent wetlands through soil samples, plant adaptations, and signs of animals. Grades 6–12 will go into more depth on the above, comparing and contrasting emergent, wooded, and wet meadow habitats, using advanced equipment and tools. *Please note:* Transportation is needed during the program (approximately 1 mile away). Please consider this when making program arrangements.

Who Eats Whom: Food Cycles & Webs

Grade: 3–4 **When:** Sept–mid–Nov, mid–April–May
Length: 1.5–2 hours **Max. students:** 60

State correlations:

Science: L.OL.03.32; L.EC.04.11; L.EC.04.21

Students learn about producers, consumers, and decomposers as they form a sample food web, and examine skulls of the various animals. They then experience food cycles in action by exploring field and forest ecosystems for evidence of food cycles and webs. This is a great program to review the food cycle concepts you've been studying in class or as a way to kick-off a unit!

Winged Wonders

Grade: 3–8
Length: 2–3 hours

State correlations:

Science: L.OL.03.32, 42

Birds are amazing animals that many of us don't take the time to fully understand. This program will teach students about the unique characteristics of birds through investigations of mounts and feathers. Outdoors, students use binoculars and weather instruments to observe birds in their habitats. Grades 6–8 will expand on the above, including more in-depth bird identification.

Winter Ecology: The Nature of Winter

Grade: 4–8
Length: 2 hours

State correlations:

Science: L.EV.05.11, 12; E.ES.05.61, 62

Enjoy the wonders of winter! Outdoors students will become mini-detectives by searching for animal tracks and attempting to determine where the animal was headed. They will also utilize tools to measure climatic conditions. Indoors, through hands-on stations students will investigate the winter adaptations of plants and animals. Students will also make predictions about animal migration, study wintering insects under a microscope, count the heart rate of a turtle in summer versus winter months, and much more! This program is well worth braving the cold.

Early registration, via fax, mail, or email only, begins Aug. 1 for 2011 programs and Nov. 1 for 2012 programs. See pages 12–13 for program fees and registration information.

School Programs “On the Road”

About “On the Road” Programs

“On the Road” programs are designed for the classroom. However, more space is great—particularly outside. Due to space limitations and the nature of our hands-on programs, we limit our “On the Road” programs to 30 students. We’re happy to offer up to four programs at your school in one day.

Archaeology: A Puzzle of History

Grade: 4–8 **Length:** 1–1.5 hours

State correlations:

Science: K-7 S.IP

Social Studies: 4–H3.04; 5–8–K.1.8; 5–8–P2

This program introduces students to the puzzling world of archaeology through a slide show of an actual site, and a “dig” of very recent artifacts. This is a great introductory program to do before attending the archaeology program at the Nature Center or as a stand-alone program.

Bears, Beavers, Bats—Oh, MI!

Grade: K–5 **Length:** 1–1.5 hours

State correlations:

Science: L.OL.03.32, 42; L.EV.03.12; L.EV.04.21;

L.EV.05.11, 12

Students investigate the characteristics, adaptations, and lives of Michigan mammals! Students will learn what makes these animals unique, what they do during the different seasons, and how humans impact their lives.

Flying Feathered Friends

Grade: 2–8 **Length:** 1–1.5 hours

State correlations:

Science: L.OL.03.32, 42; L.EV.03.12; L.EV.04.21;

L.EV.05.11, 12

In this program students discover unique bird adaptations such as flight, song, and nest-building. Students inspect mounts, examine feathers, use field guides, and identify bird songs. Grades 6–8 will expand on the above including bird identification.

Hop, Slither & Crawl with Us!

Grade: K-8

Length: 1–1.5 hours

State correlations:

Science: L.OL.03.32, 42; L.EV.03.12; L.EV.04.21;

L.EV.05.11, 12

Michigan amphibians and reptiles are fascinating animals uniquely adapted for life. Students will learn to classify reptiles and amphibians, their various adaptations, and even their communication.

Invasive Exotics

Grade: 9-12

Length: 1 hour

This program explains how invasive exotic species affect biodiversity and succession. Students participate in activities challenging them to understand how personal and societal choices and actions can impact natural ecosystems.

Michigan Geology—Don’t Take the Planet for Granite!

Grade: 3-7

Length: 1–1.5 hours

State correlations:

Science: E.SE.03.13, 14, 31

Students will explore the vast span of geologic history including our modern reliance on geologic resources for everyday living. Students investigate the earth’s composition, simulate glacier and land formation in Michigan, and examine rocks and minerals. Grades 5-7 will expand on the above by investigating erosion and experimenting with identification techniques for rocks and minerals.

Nature’s Buffet

Grade: 3-5

Length: 1–1.5 hours

State correlations:

Science: L.OL.03.32; L.EC.04.11; L.EC.04.21

Through games, songs, and creating their own food web, students learn about producers, consumers, decomposers, and the roles they play in our everyday lives.

School Programs “On the Road”

Ready for Winter (Offered November–January)

Grade: Pre-2 **Length:** 1–1.5 hours

State correlations:

Science: L.OL.00.11; L.OL.01.13

Students compare their own preparations with the ways animals prepare for and cope with Michigan winters. A fun and interactive puppet show illustrating migration, hibernation, and adaptation reinforces the concepts.

Seasons of Change

Grade: K-5 **Length:** 1–1.5 hours

State correlations:

Science: L.OL.01.13; L.OL.02.14

Students discover what’s happening in nature that makes a particular season special. Attention is focused on adaptations of plants and animals and the interrelationships among them. Sensory activities help explain the concepts.

Those Amazing Green Machines

Grade: K-8 **Length:** 1–1.5 hours

State correlations:

Science: L.OL.02.14; L.OL.02.22; L.HE.02.13;
L.OL.03.13; L.EV.03.11

Meadow Rue loves plants! She shares her excitement for plants through various hands-on, interactive activities. Younger students will discuss plant part, life cycles, and seed dispersal. Older students will also talk about photosynthesis and categories of plants. After spending time with the wacky plant lady, Meadow Rue, students are sure to have a new appreciation for plants.

Vernal Pools: A Springtime Wonder

Grade: 3-6 **Length:** 1–1.5 hours

State correlations:

Science: L.OL.04.15, 16; L.EV.04.22; L.EC.04.11, 21; L.EC.06.11; L.EC.06.31

Experience the wonders of vernal pools! During this program students will investigate the unique aquatic organisms found in this amazing temporary habitat. Students will even get to see one of their classmates become a fairy shrimp—before their very eyes!

Weather Works

Grade: 3-6 **Length:** 1.5–2 hours

Students will discover the different elements that make up Michigan’s weather through hands-on activities and the use of weather tools. Included are types of clouds, measuring weather parameters, and understanding symbols on a weather map.

Wetland Whimsy

Grade: 3-6 **Length:** 1–1.5 hours

State correlations:

Science: L.OL.04.15, 16; L.EC.04.11, 21;
L.EC.06.11

What is a wetland? Why are wetlands important? This program answers those questions and more. This is a great program to do before visiting the Nature Center wetland or as a stand-alone program about one of Michigan’s precious ecosystems.

**Transportation costs have you down?
Sign up for an “On the Road” program
and CNC educators will come right to
your classroom!**

Traveling Educational Trunks

Chippewa Nature Center's Traveling Trunks are filled with hands-on, interdisciplinary activities to be conducted in the classroom or on your school grounds. Each trunk contains a curriculum guide (which includes vocabulary lists, reproducible worksheets, and background information), and a plethora of materials for conducting the activities such as books, pictures, and specimens.

Trunks may be checked-out for a 2-week period for a fee of \$20. An additional fee will be assessed if you need the trunk mailed to you. Reserve your trunk at anytime—no need to wait until the school program registration begins! *All trunk curriculum guides are designed for grades 3-6, but anyone may check-out the trunks.*

Alien Invasion!

This trunk includes activities focusing on identification of invasive exotic species, management, prevention of arrival and spreading, the impact exotic species have on ecosystems, and much more. It's packed full of hands-on lessons, pictures, books, videos, posters, and enough fun and learning to last at least a week!

Fish & Their Habitats

Fish & Their Habitats includes activities focusing on identification and classification, predator and prey relationships, and human impacts and conservation efforts. Materials include fish identification books, photos, posters, maps of local watersheds, and much more.

Michigan's Precious Few

What is the difference between an endangered and threatened species? What causes an animal or plant to become endangered or threatened? This trunk includes activities explaining factors leading to the demise of species, steps that can be taken to help these species, and laws related to plant and wildlife protection. Materials include, among other things, videos, books, and puppets.

Traveling Trunks bring the outdoors to your classroom. Each trunk, like the Tree Trunk shown here, includes books, CD-ROMs, a curriculum guide and more.



Native American Uses of Natural Resources

Use this traveling trunk to discover how Native Americans interacted with natural resources a thousand years ago. Reproduction items include an arrow, stone drill, stone point, and stone knife. Among other items, the trunk also includes a brain tanned hide, beaver pelt, fire making kit and baskets.

The Tree Trunk

The Tree Trunk includes activities on tree identification, forest ecology, forest measurements, Michigan lumbering history, and human uses of trees. Materials include cross-sections of trees, tree identification books, historical lumbering photos and much more.

Wetlands

Wetlands are one of our most precious ecosystems, and this trunk gives a glimpse into why. Books, maps of wetland changes in Michigan, videos, activities, and more bring this amazing resource to life.

Homestead Life

This trunk uses a variety of artifacts to teach children about Michigan farm life in the 1870s. Included in the trunk are items such as McGuffey readers, toys and games typically played, clothes, butter molds, wool carders and much more! There is also a written packet with background information and activity ideas.

Program Fees

School Programs at CNC

Program Length (in hours)	Fee/Student (in dollars)	Minimum Fee (Groups <10)
1	1.80	18.00
1.5	2.00	20.00
2	2.25	22.50
3	3.00	30.00
4	4.00	40.00

Lunchroom

There is a \$5 fee per lunchroom.

Chaperones

We ask that you please bring one chaperone for every 10–12 students, unless noted otherwise. There is no charge for school staff and one chaperone for every 10–12 students.

Special Maple Syrup & Sugarbush Rate!

Program Length (in hours)	Fee/Student (in dollars)	Minimum Fee (Groups <10)
1	1.50	15.00
1.5	1.75	17.50

Traveling Trunks

Trunks can be checked-out for a 2-week period for a fee of \$20. An additional fee will be assessed if the trunk is to be shipped.

School Programs “On The Road”

Program Length (in hours)	Distance from CNC (in miles)					
	0-15	16-30	31-45	46-60	60-75	Adt'l Prog.*
1	\$60	\$70	\$80	\$90	\$100	\$20
1.5	\$70	\$80	\$90	\$100	\$110	\$25
2	\$80	\$90	\$100	\$110	\$120	\$30

*We offer a reduced program fee for each additional program conducted on the same day at the same location, with a maximum of four programs per day.

Please note: There is an additional \$10 fee for “Ready for Winter” On The Road.

Cancellation Policy

There is no charge for programs cancelled more than 48 hours in advance. If programs are cancelled less than 48 hours in advance, a \$25 fee will be charged. We do not charge for cancellations due to school closings. **Please note:** All school programs will be cancelled if Bullock Creek Public Schools are closed due to weather.

Funding Troubles?

We are happy to write letters of support for grant applications or speak to your parent-teacher organization. Contact us at 989-631-0830 for more information!

Registration Form

Chippewa Nature Center

400 S. Badour Rd., Midland, MI 48640

989-631-0830, 989-631-7070 (fax)

scheduler@chippewanaturecenter.org

Registration begins via: **Fax/Mail/Email** **Phone**

For Sept.–Dec. programs: Aug. 1 Aug. 15

For Jan.–May programs: Nov. 1 Nov. 15

Programs are offered Sept. 19, 2011—May 24, 2012

Contact Info

Contact Name: _____

School/Group: _____

Address: _____

City, State: _____ Zip: _____

Phone: (W) _____ (H) _____

Email: _____

Billing Info

Invoice to: (Att): _____

School/Company: _____

Invoicing Address: _____

City, State: _____ Zip: _____

Group Needs

Are there any students with special needs? _____

If yes, what are those needs? _____

Additional needs/comments (Lunch room? Be on the bus by a certain time?): _____

Program Request Information

Program 1

Program Title: _____

Program Length (in hours): | 1.5 2 3 3.5 4 4.5

Teacher Name: _____

of students: _____ Grade: _____

Location: CNC “On the Road”

Date & Time Requested:

1st Choice Date: _____

Time: 9:30 | 10 10:30 | 11 11:30 | 12 12:30 | 1 1:30 | 2

2nd Choice Date: _____

Time: 9:30 | 10 10:30 | 11 11:30 | 12 12:30 | 1 1:30 | 2

Program 2

Program Title: _____

Program Length (in hours): | 1.5 2 3 3.5 4 4.5

Teacher Name: _____

of students: _____ Grade: _____

Location: CNC “On the Road”

Date & Time Requested:

1st Choice Date: _____

Time: 9:30 | 10 10:30 | 11 11:30 | 12 12:30 | 1 1:30 | 2

2nd Choice Date: _____

Time: 9:30 | 10 10:30 | 11 11:30 | 12 12:30 | 1 1:30 | 2

Program 3

Program Title: _____

Program Length (in hours): | 1.5 2 3 3.5 4 4.5

Teacher Name: _____

of students: _____ Grade: _____

Location: CNC “On the Road”

Date & Time Requested:

1st Choice Date: _____

Time: 9:30 | 10 10:30 | 11 11:30 | 12 12:30 | 1 1:30 | 2

2nd Choice Date: _____

Time: 9:30 | 10 10:30 | 11 11:30 | 12 12:30 | 1 1:30 | 2

Program 4

Program Title: _____

Program Length (in hours): | 1.5 2 3 3.5 4 4.5

Teacher Name: _____

of students: _____ Grade: _____

Location: CNC “On the Road”

Date & Time Requested:

1st Choice Date: _____

Time: 9:30 | 10 10:30 | 11 11:30 | 12 12:30 | 1 1:30 | 2

2nd Choice Date: _____

Time: 9:30 | 10 10:30 | 11 11:30 | 12 12:30 | 1 1:30 | 2

Please note: You will receive a postcard confirming your information soon after you register. A complete confirmation, including directions to CNC, will be sent to you approximately four weeks before your program.

Please feel free to make additional copies of this form.



Venture Out!

400 S. Badour Rd.
Midland, MI 48640



Inspiring people & institutions to protect the natural world.