

**Supports  
Next Generation  
Science Standards**

**2018-19**



**Visitor Center**

Located near the confluence of the Pine and Chippewa rivers, Visitor Center features include:



- Ecosystem Gallery** with hands-on exhibits of CNC ecosystems and a live reptile and amphibian exhibit
- River Overlook** with spectacular views of the Pine River
- Wildlife Viewing Area** to observe animals through one-way glass
- Nature Discovery Area** with nature-themed activities, books and crafts
- Bur Oak Theater** with short nature and history interpretive videos
- Nature Center Store** offering nature-themed books, toys, gifts, eco-friendly items and more

**Visitor Center Hours:**

Mon-Sat • 8 am-5 pm  
Sun & select holidays • 12-5 pm  
Closed Thanksgiving, Christmas Eve, Christmas, New Year's Eve and New Year's Day



**Trail Hours:**

19 miles of trails open year-round dawn-to-dark daily!

**Sign up to receive CNC's weekly enews!**

www.chippewanaturecenter.org



**Dear Educator,**

Next Generation Science Standards are here! Chippewa Nature Center is ready to help your students have an amazing experience learning about the natural world through field trips, self-guided visits or custom programs, including many that support the Phenomenal Science curriculum. Flip through these pages to find the perfect program to engage your students in inquiry-based science learning. Or, help social studies come alive with our hands-on historical programs. If you don't find the right fit, contact me to discuss customizing a program to meet your needs.

There are three types of programs we can provide for you and your students:

**Field Trips** – Bring your students to CNC for a half- or full-day experience.

Our educators will work closely with your students to bring science and social studies topics to life. Hands-on activities will help them connect concepts learned in the classroom with real-life experiences they will remember.



**CNC at Your School** – Our educators will come to your classroom to deliver an engaging program on a variety of topics. We will fit our programs into your schedule and your classroom.

Our educators will come to your classroom to deliver an engaging program on a variety of topics. We will fit our programs into your schedule and your classroom.



**Traveling Trunks** –

These special trunks provide the “stuff” for great classroom learning. You may check them out for two weeks at a time, giving students access to furs, skulls, invasive species games, early homestead toys, or replicas of Native American tools.



**Registering**

The Program Request Form is available online and will be accepted beginning:  
**Aug 1 for Fall 2018 programs**  
**Dec 1 for Spring 2019 programs**

For questions or more information about scheduling programs contact Susan Kruse, Scheduler at [skruse@chippewanaturecenter.org](mailto:skruse@chippewanaturecenter.org)

For questions about curriculum or custom programs, contact Jenn Kirts, Director of Programs, at [jkirts@chippewanaturecenter.org](mailto:jkirts@chippewanaturecenter.org).

We look forward to helping your students experience science and social studies in a fun and dynamic way.

Sincerely,

Jenn Kirts  
Director of Programs

**Table of Contents**

Programs by Grade Level		Page	PreK	K	1	2	3	4	5	6	7	8	9	10	11	12	
Field Trips	Adaption for Adversity	4															
	Animal Classification	4															
	Archaeology	4															
	Aquatic Life	4															
	Cluck, Oink, Moo	4															
	Custom Programs	4															
	Ecosystem Succession	4															
	Farm to Table	5															
	Food Chains & Webs	5															
	From Forest to Mill	5															
	Homestead Holiday	5															
	Homestead Life	5															
	Homestead-Schoolhouse Sampler	5															
	Incredible Insects	5															
	Kindergarten Stewards	5															
	Living and Non-Living in Nature	6															
	Log Schoolhouse	6															
	Maple Syrup	6															
	Native American Uses...	6															
	Pelt to Felt	6															
	Plant Classification	6															
	Plant Cycles	6															
	Plants Everywhere	7															
Ready for Winter	7																
Seasonal Ecology	7																
Soil!	7																
Sugarbush	7																
Surviving the Elements	7																
Water, Water Everywhere	7																
Wetlands	7																
CNC at Your School	Animal Classification	8															
	Bears, Beavers, Bats – Oh, MI!	8															
	Flying Feathered Friends	8															
	Hop, Slither & Crawl with Us!	8															
	Incredible Insects	8															
	Geology Rocks!	8															
	Native American Uses...	8															
	Plant Cycles	9															
	Plant Power	9															
	Ready for Winter	9															
Seasons of Change	9																
Soil!	9																

## Adaptation for Adversity

**Grade:** 4-6 **When:** Nov-March  
**Length:** 2 hours **Max students:** 60  
**State correlations:** *Science:* 4-LS1-1; MS-LS1-4; MS-LS2-1  
**Phenomenal Science Unit:** Built for Survival (4th grade)



Every animal that lives in Michigan must adapt to deal with the cold weather, limited food and frozen water of winter. Students will spend time indoors and out, discovering for themselves how the animals of Michigan cope with the conditions of winter. *\*If weather is very poor, adjustments will be made to limit outdoor time.*

## Animal Classification

**Grade:** 2-4 **When:** Sept-Oct, April-May  
**Length:** 1.5 or 2 hours **Max. students:** 30  
**State correlations:** *Science:* 3-LS3-1, 3-LS4-2  
**Phenomenal Science Unit:** Feature Factor (1st grade)



Students will learn basic classifying skills using the visible 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. *Combine with Plant Classification for a full-day experience.*

## Archaeology

**Grade:** 4-8 **When:** Sept-May  
**Length:** 2 hours **Max. students:** 30  
**Location:** Indoors  
**State correlations:** *Social Studies:* 4-H3.0.4; 5-8-K1, P2



This class introduces students to basic archaeological concepts and excavation techniques. Students will become archaeologists by identifying potential archaeological sites, analyzing historical research, identifying potential excavation sites, excavating "artifacts" in indoor pits and sharing a report with their classmates.

## Aquatic Life

**Grade:** 3-6 **When:** Sept-Oct, May  
**Length:** 2 hours **Max. students:** 30  
**State correlations:** *Science:* 3-LS3-2, 4-LS1-1, 5-ESS3-1  
**Phenomenal Science:** Stick Together (3rd grade), Built for Survival (4th grade)



This program 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



These programs are also available as a CNC At Your School program.

also explore the edges of a pond using dippers and nets. Microscopes and field guides help students identify the organisms they find.

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

**Grade:** PreK-1 **When:** Sept-Oct  
**Length:** 1 hr (Pre-K) or 1.5 hrs (1<sup>st</sup> grade)  
**Max. students:** 30  
**State correlations:** *Science:* K-LS1-1, K-ESS3-1  
*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 food, as well as non-food products such as leather and wool. Activities include milking a pretend cow, making butter, examining non-food products and visiting live farm animals.

## Custom Programs

**Grade:** PreK-12 **When:** Sept-May  
**Length:** 1-4 hours  
**Max students:** Program dependent (typically 60)



Do you have a topic in mind and don't see it listed here? Is there a particular concept you'd like to teach or something you'd like your students to experience? Contact Jenn Kirts, Program Director at 989-631-0830 or jkirts@chippewanaturecenter.org to discuss your ideas and needs. We love to work with schools and teachers to design programs that are a perfect fit.

## Ecosystem Succession

**Grade:** 5-8 **When:** Sept-Oct, May  
**Length:** 2 **Max. students:** 60  
**State correlations:** *Science:* MS-LS2-2, 4, 5



Students will experience succession first-hand as they travel through the forest, 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.

## Farm to Table

**Grade:** 2-5 **When:** Sept-Oct, May  
**Length:** 2 hours **Max. students:** 30  
**State correlations:** *Science:* 4-LS1-1



We can't survive without farms! We will trace our foods back to the plants they come from. Students will learn about the variety of plant parts that we eat as well as the role of livestock in our diets. A visit to the garden, fields and livestock pens will help the concepts come to life.

## Food Chains & Webs

**Grade:** 3-6 **When:** Sept-mid-Nov, mid-April-May  
**Length:** 1.5-2 hours **Max. students:** 60



Students learn about producers, consumers and decomposers as they form a sample food chain, and examine skulls of the various animals. They then experience food webs in action by exploring field and forest ecosystems.

## From Forest to Mill – Lumbering in Michigan

**Grade:** 3-5 **When:** Sept-Oct; mid-April-May  
**Length:** 2 hours **Max. students:** 30  
**State correlations:** *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:** Dec  
**Length:** 1.5 hours **Max. students:** 30  
**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, do chores, learn about evergreens and make a sachet to take home.

## Homestead Life

**Grade:** 1-5 **When:** Sept-Nov, April-May  
**Length:** 1.5 or 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



Through explorations of the cabin, barn and other buildings, students will get to see and experience some of the things farm children in the 1870s would have experienced. Activities will help students understand how 1870s life on the farm is both similar and different from our own lives. Chores vary seasonally, but might include grinding corn, pumping water and sawing logs.

## Homestead-Schoolhouse Sampler

**Grade:** K-5 **When:** Sept-Nov, April-May  
**Length:** 1.5 or 2 hours **Max. students:** 60  
**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



At the Homestead, students will learn about life on an 1870s farm in Midland. At the Log Schoolhouse, they will learn the basics of education during that time period. Hands-on activities and explanations of what students see will help them understand the lives of 1870s farm children.

## Incredible Insects!

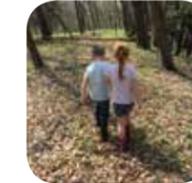
**Grade:** K-3 **When:** Sept-Oct, mid-April-May  
**Length:** 1.5 or 2 hrs **Max. students:** 60  
**State correlations:** *Science:* K-LS1-1, 2-LS2-2, 2-LS4-1, 3-LS4-2, 4-LS1-1



This program focuses on the characteristics, diversity and importance of insects. Students will learn basic characteristics and life cycles, and will try their hand at collecting insects in different ecosystems.

## Kindergarten Stewards

**Grade:** K **When:** Sept-Nov, mid-April-May  
**Length:** 1 hour **Max Students:** 60  
**State correlations:** *Science:* K-ESS3-3  
**Phenomenal Science Unit:** Living it up (Kindergarten)



Students will explore the Nature Center looking for signs of human impact on the land, water, and living things. Working in small groups, they will imagine and design solutions to reduce our impact on nature. *Combine with Living and Non-living in Nature for a full-day experience.*

## Living and Non-Living in Nature

**Grade:** K **When:** Sept-Nov, mid-April-May  
**Length:** 1.5 hours **Max Students:** 60  
**State correlations:** *Science:* K-LS1-1, K-ESS2-2, K-ESS3-1  
**Phenomenal Science Unit:** Living it up (Kindergarten)



Exploring the woods and ponds, students will build a forest using living and non-living components and engineer beaver dams as they explore how beaver alter the ecosystem to meet their needs. Through exploration and engineering, students will investigate the interactions between living things and their environments. *Combine with Kindergarten Stewards for a full-day experience.*

## Log Schoolhouse

**Grade:** 1-5 **When:** Sept-mid-Nov, April-May  
**Length:** 1.5 or 2 hours **Max. students:** 30  
**State correlations:** *Social Studies:* 1-H2.0.5,6; 4-H3.0.4



A CNC educator will lead a day of lessons including subjects such as geography, reading and arithmetic as students might have experienced in 1870. Students will also enjoy recess with period games such as hoops, stilts

and graces.

## Maple Syrup

**Grade:** 2-5 (PreK-1 see "Sugarbush") **When:** March  
**Length:** 1.5 hrs **Max. students:** 60  
**State correlations:** *Science:* 2-LS4-1, 3-LS1-1, 5-PS3-1, MS-LS1-6 *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 addressing the science behind this exciting spring happening. Students then go to the woods to identify and tap a maple tree and visit the sugarhouse to see matter change before their very eyes as the vapor rises and the syrup thickens.

## Native American Uses of Natural Resources

**Grade:** 3-6 **When:** Sept-May  
**Length:** 2 or 4 hours\* **Max. students:** 30  
**State correlations:** *Social Studies:* 3-H3.0.5; 3-H3.0.6; 3-G5.0.2; 5-U1.1.3



Come learn how Michigan's Woodland Indians used local natural resources to meet their needs before the arrival of Europeans. Students will visit the wigwam, handle rock and bone tools,

scrape a hide and use a bow and drill to try to make fire. During the 4-hour program, students will also make a small piece of pottery, practice basket-making skills and learn more about the plants Native Americans used. *\*Please note that the 4-hour program also includes a 30-minute lunch break; total time is 4.5 hours.*

## Pelt to Felt: The Great Lakes Fur Trade

**Grade:** 3-5 **When:** Sept-May  
**Length:** 2 hours **Max. students:** 30  
**State correlations:**

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



Students will experience a unique historical time of our region when beaver pelts were the currency of the Great Lakes. They will see the fur trade from the perspective of a French Voyageur, as well as a Native American.

The program culminates with a trade for goods where the students will have to weigh the costs and values of items.

## Plant Classification

**Grade:** 3-5 **When:** Sept-Oct, May  
**Length:** 1.5-2 hours **Max. students:** 30  
**State correlations:** *Science:* 1-LS1-1, 2-LS4-1, 3-LS3-1

**Phenomenal Science Unit:** Feature Factor (1st grade)



Life on Earth depends on the amazing variety of plants that we classify into groups using their unique characteristics. This program teaches students how to classify plants, the diversity of plant species and how plants are adapted to

live in their natural environments. *Combine with Animal Classification for a full-day experience.*

## Plant Cycles

**Grade:** 2 **When:** Sept-Oct, mid-April-May  
**Length:** 2 hours **Max Students:** 60  
**State correlations:** *Science:* 2-LS2-2, 3-LS1-1

**Phenomenal Science Unit:** Bloom where you're planted (2nd grade)



Exploring the fields and forests, students will study the life stages of various native plants. Looking for flowers, seeds, sprouts, young and mature plants, students will recognize life stages in many different plants. Hands-on activities will

help students discover the important process of pollination. *Combine with Plants Everywhere for a full day experience.*

## Plants Everywhere

**Grade:** 2 **When:** Sept-Oct, mid-April-May  
**Length:** 2 hours **Max. students:** 60  
**State correlations:** *Science:* 12-LS4-1, 3-LS4-3

**Phenomenal Science Unit:** Bloom where you're planted (2nd grade)



Gathering data in a field, forest, and wetland, students will explore adaptations plants possess that help them thrive in the ecosystem where they live. Students will also explore seed dispersal mechanisms and work in small groups to design and test a seed adapted for wind dispersal. *Combine with Plants Everywhere for a full day experience.*

## Ready for Winter

**Grade:** PreK-2 **When:** Nov-Jan  
**Length:** 1 or 1.5\* hours **Max. students:** 60  
**State correlations:** *Science:* 1-LS1-1

**Phenomenal Science Unit:** Feature Factor (1st grade)



During this indoor class, students discuss how they get ready for winter. They compare this with the ways animals prepare for and cope with Michigan winters. A puppet show illustrating migration, hibernation and adaptation reinforces the concepts. *\*Please note: The 1.5-hour session will spend time outdoors looking for signs of animals preparing for winter.*

## Seasonal Ecology

**Grade:** PreK-5 **When:** Year-round  
**Length:** 1-2 hours **Max. students:** 60  
**State correlations:** *This program can be customized to address topics and concepts that you specify.*



Discover what's happening in nature that makes a season unique. Games, activities and hands-on exploration will help concepts come to life as students explore different ecosystems.

## Soil!

**Grade:** 5-8 **When:** Sept-Oct, April-May  
**Length:** 2 hours **Max. students:** 60  
**State correlations:** *Science:* MS-LS2-4, MS-LS2-5

Soil is the critical foundation of ecosystems. Students will discover the importance of soil and various soil properties. They 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:** PreK-1 **When:** March  
**Length:** 1.5 hours **Max. students:** 60  
**State correlations:** *Science:* K-LS1-1



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.

## Surviving the Elements

**Grade:** 4-12 **When:** Sept-Oct, mid-April-May  
**Length:** 4.5 hours (including 30 min. lunch break)  
**Max. students:** 60



Students are given survival scenarios and as a group, make decisions and take appropriate action. Students learn map and compass, fire making, shelter construction and water purification skills. This program is also a great exercise in teambuilding!

## Water, Water Everywhere

**Grade:** 2 **When:** Sept-Oct, mid-April-May  
**Length:** 1.5 hours **Max. students:** 60  
**State correlations:** *Science:* 2-ESS2-3, 2-ESS2-2



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. Using experiments, role playing and hands-on activities, students will investigate the different states of water, the properties of water and where water is found in Michigan.

## Wetlands

**Grade:** 6-12 **When:** Sept-Oct, May  
**Length:** 2 hours **Max. students:** 60  
**State correlations:** *Science:* 3-LS4-3



A visit to CNC's mitigated wetlands will help students appreciate the unique role these ecosystems play in our landscape. Collecting data on vertebrates, invertebrates, plants and soils will help students identify the characteristics that define a wetland. Practicing scientific collection and observation techniques will provide real-life experience for students.

CNC educators will come to you! These programs are filled with interactive, hands-on activities, so program sizes are limited to single classes of up to 30 students. We are happy to do multiple programs in a day to accommodate as many classes as you would like. Fees are listed on page 11.

These programs require accessible, outdoor, natural space. All other programs are designed to take place indoors.

These programs are also available as a Field Trip at CNC.

## Animal Classification 🚐

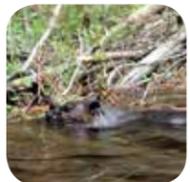
**Grade:** 2-4 **When:** Year-round  
**Length:** 1-1.5 hours **Max. students:** 30  
**State correlations:** Science: 3-LS3-1, 3-LS4-2  
**Phenomenal Science Unit:** Feature Factor



Students will learn basic classifying skills using the 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.

## Bears, Beavers, Bats – Oh, MI!

**Grade:** K-2 **When:** Year-round  
**Length:** 1-1.5 hours  
**State correlations:** Science: 3-LS3-1, 3-LS4-2, 4-LS1-1



Students investigate the characteristics, adaptations and lives of Michigan mammals! Students will learn what makes these animals unique and how they adapt to the different seasons.

## Flying Feathered Friends

**Grade:** 2-5 **When:** Year-round  
**Length:** 1-1.5 hours  
**State correlations:** Science: 3-LS3-1, 3-LS4-2, 4-LS1-1



Students discover unique bird adaptations such as flight, song and nest-building. Students inspect study skins, examine feathers and identify bird songs.

## Hop, Slither & Crawl with Us!

**Grade:** K-5 **When:** Year-round  
**Length:** 1-1.5 hours  
**State correlations:** Science: 3-LS3-1, 3-LS4-2, 4-LS1-1



Michigan amphibians and reptiles are fascinating animals uniquely adapted for life. Students will learn to classify reptiles and amphibians and their various adaptations. \*Live animal visit available for an additional fee of \$20/program.

## Incredible Insects! 🚐

**Grade:** K-3 **When:** Sept-Oct, mid-April-May  
**Length:** 1-1.5 hrs **Max. students:** 60  
**State correlations:**



Science: K-LS1-1, 2-LS2-2, 2-LS4-1, 3-LS4-2, 4-LS1-1  
 This program focuses on the characteristics, diversity and importance of insects. Students will learn basic characteristics and life cycles, and will try their hand at collecting insects.

## Geology Rocks!

**Grade:** 3-5 **When:** Year-round  
**Length:** 1-1.5 hours  
**State correlations:** Science: 3-LS4-1, 4-ESS1-1



**Phenomenal Science Unit:** Ch-Ch-Changes (5th grade)  
 Students will explore the exciting world of geology including our modern reliance on geologic resources for everyday living. Students investigate fossils, simulate glacier and land formation in Michigan and examine rocks and minerals.

## Native American Uses of Natural Resources 🚐

**Grade:** 3-6 **When:** Year-round  
**Length:** 1-1.5 hours

**State correlations:** Social Studies: 3-H3.0.5; 3-H3.0.6; 3-G5.0.1; 3-G5.0.2; 5-UI.1.3



Learn how Michigan's Woodland Indians used local natural resources to meet their needs before the arrival of Europeans. Students will handle rock and bone tools, learn about hide preparation and use a bow and drill to try to make fire.

Students will also make a small piece of pottery, practice basket-making skills and learn more about the plants Native Americans used.

## Plant Cycles 🌿 🚐

**Grade:** 2 **When:** Sept-Oct, mid-April-May  
**Length:** 2 hours **Max Students:** 60  
**State correlations:** Science: 2-LS2-2, 3-LS1-1

**Phenomenal Science Unit:** Bloom where you're planted (2nd grade)



Exploring the fields and forests, students will study the life stages of various native plants. Looking for flowers, seeds, sprouts, young and mature plants, students will recognize life stages in many different plants. Hands-on activities will help students discover the important process of pollination.

Combine with Plants Everywhere for a full day experience.

## Plant Power

**Grade:** K-2 **When:** Year-round  
**Length:** 1 or 1.5 hours  
**State correlations:** Science: 1-LS3-1, 2-LS2-2



Interactive activities will bring the power of plants to life. Plant parts, plant life cycles and seed dispersal are all addressed through large or small group hands-on elements of this fun program.

## Ready for Winter

**Grade:** PreK-2 **When:** Nov-Jan  
**Length:** 1 or 1.5 hour  
**State correlations:** Science: 1-LS1-1



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

## Seasons of Change

**Grade:** K-3 **When:** Year-round  
**Length:** 1-1.5 hours



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. Hands-on activities help explain the concepts.

## Soil! 🌿 🚐

**Grade:** 5-8 **When:** Sept-Oct, April-May  
**Length:** 1-1.5 hours **Max. students:** 60  
**State correlations:** Science: MS-LS2-4, MS-LS2-5



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



Checking out a trunk will provide you and your students access to a variety of activities and materials to enhance your classroom learning. From furs and skulls, to 1870s games, to replica Native American tools, learning will come alive when you bring a trunk to your classroom. Trunk fees are \$25 for two weeks.

## Furs & Skulls

**Grade:** K-8



Included in this trunk are the skulls and furs to compare carnivores, herbivores and omnivores. Skulls and furs of a coyote, raccoon, rabbit, beaver and deer are in the trunk. Also included are activity and identification guides.

## Homestead Life

**Grade:** K-5



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.

## Invasive Species

**Grade:** 3-8



This trunk includes activities focusing on identification of invasive exotic species, management, the impact exotic species have on ecosystems and more.

It's packed full of hands-on lessons, pictures, books, videos and posters!

## Native American Uses of Natural Resources

**Grade:** 3-6



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.

## Rocks and Minerals

**Grade:** 3-6



Filled with samples of igneous, sedimentary and metamorphic rocks as well as many samples of minerals, this trunk enables educators to bring geology to life in the classroom. The kit includes a set of minerals and testing supplies to do basic mineral testing for identification purposes. Activity supplies and outlines are provided.

## The Tree Trunk

**Grade:** 3-6



This 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 more.

**FREE!**

# Self-Guided Opportunities

These self-guided programs are designed for teachers who are comfortable leading their own field trip. Teachers must provide sufficient staff/volunteers to supervise their own classes; we recommend a minimum ratio of 1 adult to 10 children.

## Hike and Scavenger Hunt

**All ages | Approx. .5-1 hr**



Group size: up to 60 children (rotating through areas in smaller groups) Explore the nature center trails at your own pace. With 19 miles of trails, you can select a route that fits

the age and abilities of the students in your class. We will provide a scavenger hunt that will encourage the students to look high and low for a variety of natural elements. The scavenger hunt can be used on any of our trails.

## CNC Visitor Center

**All ages | Approx. .5-1 hr**



Group size: up to 60 children (rotating through areas in smaller groups) CNC's Visitor Center offers a hands-on Nature Discovery Area, engaging exhibits in the Ecosystem Gallery, a Wildlife

Viewing Area where children can watch squirrels and birds visit feeders, the Bur Oak theater with short nature-related videos, and a River Overlook room where you can see the Pine River.

Online program requests accepted beginning:  
**Aug 1 for Fall 2018 programs • Dec 1 for Spring 2019 programs**

Once your request is submitted, your program will be considered confirmed once you receive an email from CNC with a specific date, time and program cost.

## Field Trip Fees

Program Length	Student Fee*	Min. Fee/Program
1 hour	\$2.50	\$25
1.5 hours	\$2.75	\$27.50
2 hours	\$3	\$30
4 hours	\$5	\$50
Lunch Room	—	\$5



\*The student fee is for youth participating in the program. Please bring one chaperone for every 10-12 students. Teachers, chaperones and bus drivers are free.

## CNC at Your School Fees

Program Length	First Program per day <small>Plus mileage (see chart)</small>	Each add'l program on the same day <small>No mileage fee for add'l programs</small>
1 hour	\$50	\$25
1.5 hours	\$60	\$30

## Mileage

Distance	Fee
0-15 miles	\$0
16-30 miles	\$15
31-45 miles	\$30
46-60 miles	\$45

## Traveling Trunk Fees

Check out Period	Fee
2 weeks	\$25

Trunks may be picked up from the Visitor Center 8 am-5 pm Mon-Sat and 12-5 pm Sun and select holidays.



## Confirmation

After your program is scheduled, you will receive an initial confirmation with the date, time, cost and other details of your program. Two weeks prior to your scheduled program, you will receive a more detailed confirmation with information for chaperones, dividing students into groups, and other tips for a successful field trip.

## Cancellations

There is no fee for programs cancelled more than 2 days before the scheduled program. A \$25 fee will be assessed for a program cancelled with less than 2 days' notice. Cancellations due to school closures will not be assessed a fee. If *Bullock Creek Schools* are closed due to weather, all CNC school programs will be cancelled.

Questions regarding program scheduling or content?

Please contact: Susan Kruse, Scheduler  
[skruse@chippewanaturecenter.org](mailto:skruse@chippewanaturecenter.org)

## Teacher Education Programs



For groups of educators, CNC can schedule workshops on:

- **Project Learning Tree**
- **Project Wild Certification**
- **Early Childhood**
- **Nature**

Individual teachers are invited to register for CNC's annual **Nature**

**Preschool Institute** or **FREE Teacher's Night in Nature** events!

### Teacher's Night in Nature

Enjoy time with other teachers while learning ways to integrate nature into your curriculum!

#### **Kayaking the Chippewa River**

Tues, June 5, 2018 | 6-9 pm

**FREE!**

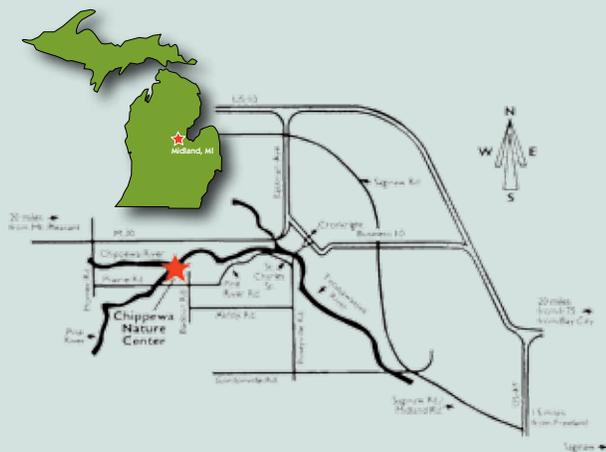


#### **Animals of the Night**

Thurs, Oct 11, 2018 | 6-8 pm

Walk the trails with CNC staff to discover nocturnal Michigan animal adaptations, sound waves with echolocation and more.

Pre-registration is required. Visit [www.chippewanaturecenter.org](http://www.chippewanaturecenter.org) to register and for additional dates and topics.



*Mission:* To connect all people with nature through educational, recreational and cultural experiences.

*Vision:* Inspiring people to be stewards of the natural world.