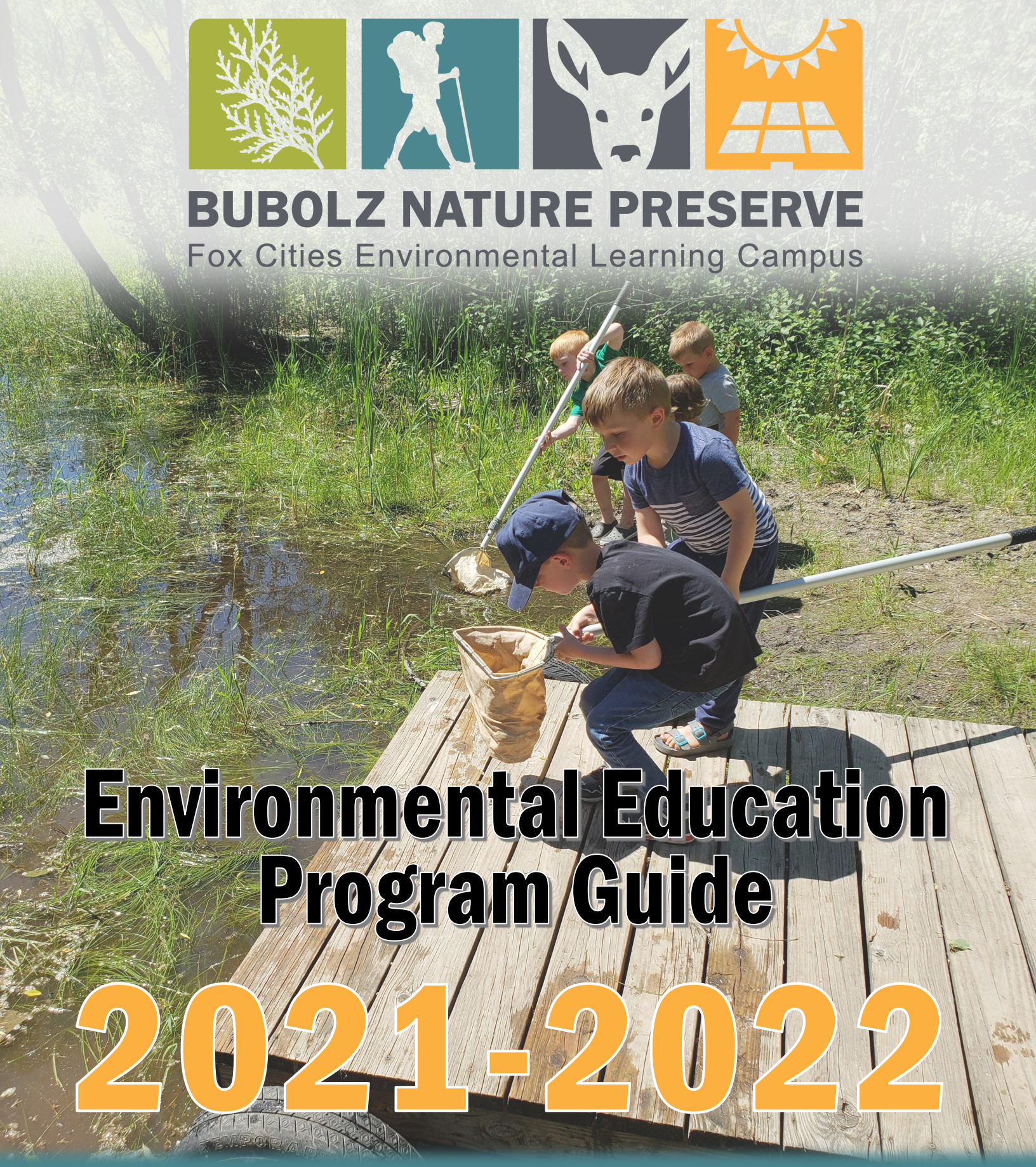
BUBOLZ NATURE PRESERVE

Fox Cities Environmental Learning Campus



Environmental Education Program Guide

2021-2022

4815 North Lynndale Drive · Appleton, WI 54913

(920)731-6041 · education@bubolzpreserve.org

www.bubolzpreserve.org

The Mission of Bubolz Nature Preserve

"Dedicated to developing a sound environmental ethic in persons of all ages through education, recreation, and conservation, while promoting a strong sense of overall wellness and appreciation of nature"

The Gordon Bubolz Nature Preserve is a living classroom for the students of the AASD. Our student's appreciation and understanding of the environment will impact them as they become our future decision-makers, determining how we interact with our natural environment.

Lee Allinger, Former Superintendent of Schools, Appleton Area School District

Environmental Education Programs

Name of Program	Grade	Length	Seasons	In/Outdoor
Stories in the Snow	PreK—1	1—2 hours	Winter	In/Outdoor
Tracks, Scat, and Other Signs	PreK—2	1—2 hours	Fall/Winter/Spring	In/Outdoor
Sensory Awareness	PreK—4	1—2.5 hours	Fall/Winter/Spring	Outdoor
Snowshoeing	K—Adult	1.5—2.5 hours	Winter	Outdoor
Sap to Syrup	K—6	1.5—2 hours	Maple Syrup	Outdoor
Trees	K—2	2 hours	Fall/Winter/Spring	Outdoor
New Plants	1—2	2—2.5 hours	Fall/Spring	In/Outdoor
Insects	1—2	2—2.5 hours	Fall/Spring	Outdoor
Soil Science	1—2	2—2.5 hours	Fall/Spring	In/Outdoor
Birds and Beaks	1—4	2—2.5 hours	Fall/Winter/Spring	In/Outdoor
Cross Country Skiing	1—Adult	2.5 hours	Winter	Outdoor
GPS and Geocaching	2—Adults	2—2.5 hours	Fall/Winter/Spring	Outdoor
Deer Tracks and Trails	3—6	2—2.5 hours	Fall/Winter/Spring	Outdoor
Earth Materials	3—4	2—2.5 hours	Fall/Spring	In/Outdoor
Structures of Life	3—4	2—2.5 hours	Fall/Spring	Outdoor
Skins, Bones, and Unknowns	3—8	2—2.5 hours	Fall/Winter/Spring	In/Outdoor
Water, Water Everywhere	3—4	2—2.5 hours	Fall/Spring	Outdoor
Wetlands	3—6	2—2.5 hours	Fall/Spring	Outdoor
Renewable Energy	4—Adults	2—2.5 hours	Fall/Winter/Spring	In
Survival	4—Adults	2.5 hours	Fall/Winter	Outdoors
Teambuilding Games	4—Adults	2—2.5 hours	Fall/Winter/Spring	In/Outdoors
Energy Cycles in the Wild	5—8	2—2.5 hours	Fall/Spring	Outdoors
Low Ropes Course	5—Adults	2.5 hours	Fall/Spring	Outdoors
Pond Study	5—8	2.5 hours	Fall/Spring	Outdoors

All Programs can be combined to make a full day field trip out to the Preserve

Key to Seasons: Fall (September/October/November) Winter (December/January/February)
Maple Syrup (March/April) Spring (April/May/June)

Next Generation Science Standards

Environmental Education Programs at Bubolz Nature Preserve	Birds and Beaks	Cross Country Skiing	Deer Tracks and Trails	Earth Materials	Energy Cycles in the Wild	GPS/Geocaching	Insects	Low Ropes Course	New Plants	Pond Study	Renewable Energy	Sap to Syrup	Sensory Awareness	Skins, Bones, and Unknowns	Snowshoeing	Soil Science	Stories in the Snow	Structures of Life	Survival	Teambuilding	Tracks, Scat, and other signs	Trees	Water, Water Everywhere	Wetlands
Physical Science																								
PS3: Energy					■					■	■	■											■	■
Life Science																								
LS1: From Molecules to Organisms	■		■		■		■		■	■	■	■	■		■		■	■			■	■	■	■
LS2: Ecosystems	■		■		■		■		■	■	■	■		■		■		■						■
LS3: Hereditary									■				■											
LS4: Biological Evolution	■		■	■			■		■					■		■		■					■	■
Earth/Space Science																								
ESS1: Earth's Place in the Universe				■												■								
ESS2: Earth's Systems				■					■	■						■							■	■
ESS3: Earth & Human Activity			■	■					■	■	■											■	■	■
Engineering Design																								
ETS1: Engineering Design											■								■				■	■

Plan Your Visit

Bubolz Nature Preserve programs are designed to address Wisconsin State Science Standards in many subject areas, and are updated to correlate and complement FOSS science curriculum and Next Generation Science Standards. Our programs are tailored to enhance your curriculum with experience rich content.

FEATURES

- 725 Acres of mixed habitat
- 8.5 Miles of seasonal trails
- Renewable Energy Microgrid/Learning Lab
- Picnic Tables
- 2 Teaching Ponds
- Trailside Benches
- Snowshoeing and Groomed Cross Country Ski Trails

FEES/PAYMENT

Half Day Program: $3.50 per student/$75 minimum
Full Day Program: $6.00 per student/$150 minimum
Ski Rental Fee: $3.00 per student/chaperone
There is no charge for teachers or chaperones.
Payment must be received the day of the field trip.
Cash or Check preferred.

CANCELLATION POLICY

Due to the high demand of our school programs we ask that you notify us as soon as possible if you need to cancel or reschedule your visit (subject to availability of dates).
If there are severe weather conditions we will make our best effort to modify the program if necessary or notify you of cancellation as soon as possible.

LUNCH FACILITIES

Lunch will be outside weather dependent. Bubolz Preserve is a carry in, carry out facility. You will be responsible for clean-up and carrying out of any trash.

GROUP CONFIRMATION

A Group Confirmation Form will be emailed approximately 1 month before your visit. Please review and verify that the program date and time, number of registered students and any special instructions are correct.

PRIOR TO ATTENDING

We provide a Teacher Guide to help prepare students prior to attending programs. They include pre- and post- activities as well as suggested book lists to help your students prepare. Teacher Guides may be downloaded from www.bubolzpreserve.org. If you would like to speak to a naturalist for help in planning a program, please call the preserve.

FOR YOUR ENJOYMENT THE DAY OF

- Programs will be held rain or shine and will be outdoors! Please dress appropriately for the weather conditions.
- Please arrive on time for your program.
- Please have students wear nametags to assist our naturalists in interacting with your group.
- Chaperones are expected to maintain discipline, encourage exploration, participation and assist when requested.

SCHEDULING

Scheduling is handled on a first-come, first-served basis subject to program availability. Register as early as possible to ensure your dates are available.
To Register: Call - (920)731-6041 or
Email - education@bubolzpreserve.org

SELF-GUIDED PROGRAMS

Self guided groups are always welcome at the nature center. We ask that you schedule your visit as you would any program. Cost is $2.00 per person (normal trail fee).

Register Early for Best Dates!

Program Descriptions

(Programs are listed in alphabetical order)

Bubolz Environmental Education Field Trips are designed to offer students the opportunity to experience and investigate the natural world around them under the guidance of Environmental Educators. Emphasizing outdoor experiences during all seasons, Bubolz Nature Preserve strives to offer learning that will encourage inquiry, exploration, and discovery.

BIRDS AND BEAKS

Grades 1 - 4 **Time: 2.5 Hours**

Students will use binoculars and field guides to learn and observe the common birds at the preserve. By the end of class, students will learn what adaptations birds have that make them unique from other classes of animals.

CROSS COUNTRY SKIING

Grades 1 - Adult **Time: 2.5 hours**

Students will learn the history of cross country skiing and receive instruction on basic technique. They will then have the opportunity to practice on our groomed ski trails. Ski rentals are available for both students and adults at a reduced rate.

DEER TRACKS AND TRAILS

Grades 3 - 6 **Time: 2.5 hours**

Through tracking, investigating, and games, students will learn about our state wildlife animal, the white-tailed deer. They will focus on adaptations, signs, urban management strategies, and predator/prey relationships.

EARTH MATERIALS

Grades 3 - 4 **Time: 2.5 hours**

Discover the geological history of the preserve as students explore different geological sites at the preserve and spend time observing the characteristics of rocks and minerals through experiments. **FOSS Aligned**

ENERGY CYCLES IN THE WILD

Grades 5 - 8 **Time: 2.5 hours**

Spend some time “searching for systems” within the forests of Bubolz. Discover the concepts of energy flow, adaptations, nutrient cycles and more. Exploring Energy Cycles is a higher level program for students with prior experience studying science in the outdoors.

GPS/GEOCACHING

Grades 4 - Adult **Time: 2.5 hours**

Go on a high-tech treasure hunt through the preserve. Students will learn what GPS means, why it is important, and how GPS is used in the real world. Included is the popular game of geocaching. During the winter, showshoes may be included (depending on weather conditions).

INSECTS

Grades 1 - 2 **Time: 2.5 hours**

Through field investigations, students become aware of the diversity of aquatic and terrestrial insects found at the preserve. They will observe insects’ life cycles and compare the stages of metamorphosis exhibited by each species. **FOSS Aligned.**

LOW ROPES COURSE—NEW PROGRAM!

Grades 6—Adult **Time: 2.5 hours**

Bring your group and tackle our new low ropes course! Work together, challenge yourself and your team to do your best. This will combine a mixture of low ropes challenges and on the ground team games. Recommended for smaller groups.

NEW PLANTS

Grades 1 - 2 **Time: 2.5 hours**

Student investigations focus on plants found locally. Students will become aware of the diversity of life in the plant kingdom. They observe the structures of plants from seeds to flowers in the field. **FOSS Aligned.**

POND STUDY

Grades 5 - 8 **Time: 2.5 hours**

Students use scientific instruments to test the quality of the pond environment. Students will focus on both abiotic and biotic factors within the pond to help them determine the health of the pond. Students will focus on pH, dissolved oxygen, water clarity, and observation of aquatic critters. **FOSS Aligned**

"Directing the students into using their senses was developed and heightened. It was a thoroughly educational and enjoyable visit."
Shepherd of the Valley Teacher

NEW PROGRAM OFFERINGS!!

RENEWABLE ENERGY INTRODUCTION

Grades K - 4 **Time: 2.5 hours**

Students will begin to learn the world of energy as they review the basics of what energy is and where it comes from. Students will be introduced to renewable energy sources.

RENEWABLE ENERGY EXPLORATION

Grades 5 - 8 **Time: 2.5 hours**

Students will dive into the world of renewable energy sources as they tour the brand new state-of-the-art Microgrid, become hands on with solar energy, and learn why renewables are important for future living.

RENEWABLE ENERGY INNOVATION

Grades 9 - 12 **Time: 2.5 hours**

Students will explore deeper into how a microgrid works and the importance for now and future generations. They will learn about careers and other opportunities in the field. They will have the option for hands-on experiments relating to solar or wind energy.

NEW PARTNERSHIPS

Continue your energy journey in the classroom and beyond with the Wisconsin K-12 Energy Education Program's (KEEP) energy conservation add-on program. After your visit to Bubolz Nature Preserve, KEEP staff will join students for an in-class program. Taking elements learned at the Preserve, students will build on their energy investigation skills to explore their own at-home energy use. For more information on this free program or to sign up, contact Melissa Alexander at malexand@uwsp.edu or 715-346-2425.

SAP TO SYRUP

Grades K - 6 **Time: 2.5 hours**

Enjoy the sweetness of spring with the magic of maple syrup season at the preserve. Students will learn the history and process of making maple syrup from the sugar bush to the sugar shack. Tap a maple tree and enjoy ice cream topped with real, 100% maple syrup.

SENSORY AWARENESS

Grades K - 4 **Time: 2 hours**

Using their senses, students will gain knowledge about the world around them. Students will explore animal habitats, learn about adaptations, and how to identify plants and animals. This guided hike is an excellent opportunity to see wildlife.

SKINS, BONES, AND UNKNOWNS

Grades 3 - 8 **Time: 2.5 hours**

Students become wildlife biologists as they investigate the animals at the preserve. By looking at animal pelts, skulls, tracks, and scat, students will discover clues that can help identify common Wisconsin animals while on a hike through the preserve.

Field Trip Teacher Guides

Bubolz Nature Preserve provides Field Trip Teacher Guides, which will enable you to take full advantage of Bubolz's programs. Working through the guides ahead of time will allow programs to run more efficiently and be more enjoyable for the students and chaperones.

SNOWSHOEING

Grades K - Adult **Time: 2.5 hours**

Students will learn the history of snowshoeing followed by a hike through the woods to look for winter animal signs and tracks. Enjoy the outdoors in the winter months and get some exercise at the same time.

SOIL SCIENCE

Grades 1 - 2 **Time: 2.5 hours**

Explore the wonders beneath your feet. Students will dig, measure, and explore local soils through a variety of active, outdoor learning stations. Students will investigate decomposers as they take a closer look at woms and their impact on the ecosystem. **FOSS Aligned**

STORIES IN THE SNOW

Grades PreK - 1 **Time: 1.5 hours**

Through exploration and imagination students will learn that animals are a part of nature and animals leave their own stories in the snow. Through storytelling, students will see how signs can tell us what animal was there and what it was doing.

STRUCTURES OF LIFE

Grades 3 - 4 **Time: 2.5 hours**

Experience the prairies, ponds, and forests of Bubolz and see how plants and animals adapt to survive in their habitats. With exploration activities, students will discover the importance of structural, functional, and behavioral adaptations. **FOSS Aligned**

SURVIVAL

Grades 4 - Adult **Time: 2.5 hours**

Teamwork and problem solving are emphasized in this outdoor skills program that simulates an emergency situation in the outdoors. Students construct survival shelters out of forest debris and use primitive fire-making skills to create a warming fire. Dressing for the weather and basic survival tips are also covered.

TEAMBUILDING

Grades 4 - 8 **Time: 2.5 hours**

Start the school year off right by learning to work together as a team. Students discover how to effectively communicate and listen to each other through fun and motivational games and activities. This is a fun and challenging program.

TRACKS, SCAT, AND OTHER SIGNS

Grades PreK - 1 **Time: 2 hours**

Students will learn how to investigate the lives of animals through the tracks and other signs they leave behind. Games, a nature hike and a hunt for animal tracks are included. Great program for winter exploration!

TREES

Grades K - 2 **Time: 2.5 hours**

Become a forester as students observe, compare, and describe the characteristics and changes in the trees throughout the seasons. **FOSS Aligned.**

WATER, WATER EVERYWHERE

Grades 3 - 4 **Time: 2.5 hours**

Explore various properties of water as students discover why water is important for existence. Look at the water cycle and then adventure to the preserve's wetlands and ponds to take a closer look at the structures, plants, and animals.

WETLANDS

Grades 3 - 6 **Time: 2.5 hours**

Explore the preserve's wetlands as students discover how important they are to an ecosystem. Create a wetland and put it to the test against various pollutants. Learn about the animals and plants that call the wetlands and swamps home.

"The programs were excellent! Each station truly reinforced our science curriculum. The students enjoyed themselves and came away having learned additional information about our units of study. Thanks!"
Johnston Elementary Teacher

Environmental Education Outreach Program Offerings

Kindergarten through Second Grade

ANIMAL TRACKS, SCAT, AND SIGNS

Time: 1 hour **Season: Fall/Spring**

Explore your school site or a nearby park in search of tracks, scat, or signs of Wisconsin animals. Investigate the changes and adaptations that take place during these seasons. Games and a hike included.

INCREDIBLE INSECTS

Time: 1 hour **Season: Fall/Spring**

Discover the incredible world of insects and other creepy crawlies through this low to the ground adventure. Collect and examine these creatures using bug viewers and sweep nets. Discover how they are responsible for soil, plants, and people.

SENSORY ADVENTURE

Time: 1 hour **Season: All Seasons**

Nature comes in a variety of shapes, sizes, colors, textures, tastes, and sounds. Learn about the diversity around your school while engaging in a variety of sensory activities and games in the outdoors.

Third Grade to Fifth Grade

BIRDS AND BEAKS

Time: 1 hour **Season: All Seasons**

Students will use binoculars and field guides to learn and observe common birds around your school or nearby park. By the end of class, students will learn what adaptations birds have that make them unique from other classes of animals. Owl Pellet Dissection can be added for an extra fee: $2.50 per pellet (1 pellet for every 2-4 students). Add an extra half hour if choosing to add owl pellets.

DEER TRACKS AND TRAILS

Time: 1 hour **Season: Fall/Winter**

Through investigations and games, students will learn about our state wildlife animal, the white-tailed deer. They will focus on adaptations, signs, urban management strategies, and predator/prey relationships.

ADAPTATIONS/FOOD CHAINS

Time: 1 hour **Season: Fall/Spring**

Discover how plants and animals adapt to survive in their habitats and explore the role that adaptations play in food chain interactions. Play a game and go on an adventure to search for plants and animals around your school.

EARTH MATERIALS

Time: 1 hour **Season: All Seasons**

Discover the geological history of the Fox Valley as students observe and discover the characteristics of commonly found rocks and minerals. Students will complete activities which focus on how rocks are formed. Indoor Program.

SKINS, BONES, AND UNKNOWNS

Time: 1 hour **Season: All Seasons**

Students become wildlife biologists as they investigate the animals common to Wisconsin. By looking at animal pelts, skulls, tracks, and scat, students will discover clues that can help identify common Wisconsin animals while going on a hike around your school or nearby park.

WETLANDS

Time: 1 hour **Season: All Seasons**

Explore why wetlands are so important to an ecosystem. Create a wetland and put it to the test against various pollutants. Learn about the animals and plants that call wetlands home. Indoor Program.

Kindergarten through Fifth Grade

SNOWSHOEING

Time: 1.5 hours **Season: Winter**

Students will learn the history of snowshoeing followed by a hike around your school or nearby park on an adventure for winter animal signs and tracks. Enjoy the outdoors in the winter months and get some exercise at the same time. Additional Fees Apply.

Program Details

- All outreach programs are led by Bubolz Preserve Environmental Educators and take place indoors or outdoors at your school site or nearby park.
- Programs last 1 - 1.5 hours and have a limit of 35 students. More than one program can be scheduled on the same day to accommodate multiple classes.
- Fees are $100 per class up to 35 students. Additional mileage fees apply for programs outside a 30 mile radius of Bubolz Nature Preserve.
- Snowshoeing program costs: Minimum $150 or $6.50 per student up to 35 students.
- Program dates and times are flexible; please contact Bubolz Preserve for more information: (920) 731-6041 or education@bubolzpreserve.org.

Other Opportunities

SPECIAL REQUEST PROGRAMS

If your school or group is interested in doing something other than what is listed, contact us about a customized program. We will do our best to accommodate your request.

AFTERSCHOOL CLUBS

The nature preserve offers special programs to afterschool and environmental clubs. We can travel to your school or you can bring a group to the preserve for a visit.

SERVICE LEARNING

The nature preserve has service learning opportunities for small groups of students so they can learn as they work on a volunteer project. Projects could include trail maintenance or habitat restoration.

Programs are scheduled on a first come-first served basis.
Register early to get your first date choice!
(920)731-6041 or education@bubolzpreserve.org

Love of nature is a responsibility, a privilege, and a challenge.
Gordon A. Bubolz