



4815 North Lynndale Drive • Appleton, WI, 54913 (920)731-6041 • info2@bubolzpreserve.org www.bubolzpreserve.org

The Mission of Gordon Bubolz Nature Preserve is:

"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, Superintendent of Schools, Appleton Area School District

Bubolz Nature Preserve Environmental Education Programs

Name of Program	<u>Grade</u>	<u>Length</u>	Max # of Students	<u>Seasons</u>	In/Outdoor		
Stories in the Snow	PreK - 1	1.5 Hours	30	Winter	In/Outdoor		
Tracks and Scat	PreK - 1	2 Hours	30	Fall/Winter/Spring	In/Outdoor		
Sensory Awareness	K - 4	2 Hours	60	Fall/Winter/Spring	Outdoor		
Snowshoeing	K - Adult	2.5 Hours	30	Winter	Outdoor		
Sap to Syrup	K - 6	2 Hours	60	Maple Syrup	Outdoor		
Trees	K - 2	2 Hours	60	Fall/Spring	Outdoor		
New Plants	1-2	2.5 Hours	60	Fall/Spring	Outdoor		
Insects	1-2	2.5 Hours	60	Fall/Spring	Outdoor		
Soil Science	1-2	2.5 Hours	30	Fall/Spring	Outdoor		
Birds and Beaks	1 - 4	2.5 Hours	60	Fall/Winter/Spring	In/Outdoor		
Cross Country Skiing	1 - Adult	2.5 Hours	45	Winter	Outdoor		
Earth Materials	3 - 4	2.5 Hours	60	Fall/Spring	In/Outdoor		
Structures of Life	3 - 4	2.5 Hours	60	Fall/Spring	In/Outdoor		
Skins, Bones, and Unknowns	3-8	2.5 Hours	60	Fall/Winter/Spring	In/Outdoor		
Water, Water	3 - 4	2.5 Hours	60	Fall/Spring	Outdoor		
Deer Tracks and Trails	3 - 6	2.5 Hours	60	Fall/Winter	In/Outdoor		
Wetlands	3 - 6	2.5 Hours	60	Fall/Spring	In/Outdoor		
GPS/Geocaching	4 - Adult	2.5 Hours	60	Fall/Winter/Spring	In/Outdoor		
Survival	4 - Adult	2.5 Hours	50	Fall/Winter	Outdoor		
Teambuilding	4 - 8	2.5 Hours	60	Fall/Spring	Outdoor		
Mixtures and Solutions	5 - 6	2.5 Hours	30	Fall	Outdoor		
Pond Study	5 - 8	2.5 Hours	45	Fall/Spring	Outdoor		
Exploring Energy Cycles	5 - 8	2.5 Hours	30	Fall/Spring	Outdoor		

Half Day Programs can be combined to make a full day field trip to the preserve

Key to Seasons: Fall (September/October/November)

Maple Syrup (March/April)

Winter (December/January/February)
Spring (April/May/June)

Science Standards

Enviromental Education Programs at Bubolz Preserve	Birds and Beaks	Cross Country Skiing	Deer Tracks and Trails	Earth Materials	Exploring Energy Cycles	GPS/Geocaching	Insects	Mixtures and Solutions	New Plants	Pond Study	Sap to Syrup	Sensory Awareness	Skins, Bones, & Unknowns	Snowshoeing	Soil Science	Stories in the Snow	Structures of Life	Survival	Teambuilding	Tracks and Scat	Trees	Water, Water	Wetlands
Next Generation Science Standards																							
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																							
FOSS Aligned																							

Plan Your Visit

Bubolz Nature Preserve programs are designed to address Wisconsin Academic Standards and Common Core 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
- 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

There is no charge for teachers or chaperones.

Payment must be received the day of the field trip.

Cash or Check preferred. A Credit Card processing fee will be charged.

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.
- Enjoy your visit!

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 - cosenroth@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). No equipment will be provided.



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 Max. 60 Students 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.

Wisconsin Standards: Students use binoculars to make observations. They use books and naturalist input to help answer questions, make predications, and offer explanations. They discover how each organism meets its basic needs for survival.

CROSS COUNTRY SKIING

Grades 1 - Adult Time: 2.5 hours Max. 45 Students 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.

Wisconsin Standards: Students will apply concepts of movement to develop physical skills. They will celebrate personal success and achievement as well as those of others while feeling satisfaction of completing a physical activity.

DEER TRACKS AND TRAILS

Grades 3 - 6 Time: 2.5 hours Max. 60 Students 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.

Wisconsin Standards: Students discover how organisms have adapted by developing special structures to help them survive. They will understand how an organism's behavior evolves through adaptation to its environment.

EARTH MATERIALS

Grades 3 - 4 Time: 2.5 hours Max. 60 Students
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

Wisconsin Standards: Students will use scientific equipment, investigation, and observation to show that earth materials have different physical and chemical properties. They develop explanations for connections among living and nonliving things.



EXPLORING ENERGY CYCLES

Grades 5 - 8 Time: 2.5 hours Max. 30 Students 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.

Wisconsin Standards: Through investigations, students show how organisms both depend on and contribute to the balance or imbalance of available energy and nutrients in ecosystems. Through data collected, they can make predications and develop explanations about continued life on earth.

GPS/GEOCACHING

Grades 4 - Adult Time: 2.5 hours Max. 60 Students 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).

Wisconsin Standards: Students will explore how science and technology are interdependent to each other.

INSECTS

Grades 1 - 2 Time: 2.5 hours Max. 60 Students 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.

Wisconsin Standards: Students will illustrate the different ways organisms grow through life stages. They will use scientific equipment to develop predictions and answer questions through investigations.

MIXTURES AND SOLUTIONS

Grades 5 - 6 Time: 2.5 hours Max. 30 Students
Students study the make-up of substances in
nature to gain knowledge about the concepts of
concentration, saturation, and chemical reactions.
Students will discover how chemical changes in the
natural world can create catastrophic results.

Wisconsin Standards: Students will identify questions they can investigate using resources. They will conduct investigations to develop explanations of physical and chemical interactions and the impact on the environment.

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.

NEW PLANTS

Grades 1 - 2 Time: 2.5 hours Max. 60 Students 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.

Wisconsin Standards: Students will investigate how organisms respond to both internal and external cues. They will illustrate the different ways organisms grow through different life stages in order to survive.



POND STUDY

Grades 5 - 8 Time: 2.5 hours Max. 45 Students
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

Wisconsin Standards: Students show how organisms have adapted structures to match their functions. They use scientific equipment including secchi disks, thermometers, and kits to collect data, make predictions and offer explanations.

SAP TO SYRUP

Grades K - 6 Time: 2.5 hours Max. 60 Students
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.

Wisconsin Standards: Students investigate how organisms, especially plants, respond to both internal and external cues. Students learn inquiry skills by making observations, asking questions, and offering explanations about questions asked.

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

Shepherd of the Valley Teacher

SENSORY AWARENESS

Grades K - 4 Time: 2 hours Max. 60 Students 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.

Wisconsin Standards: Students understand that objects are made of more than one substance by observing and describing size, shape, and color. They use science content-learning to ask questions, make observations, make predictions, and offer

SKINS, BONES, AND UNKNOWNS

Grades 3 - 8 Time: 2.5 hours Max. 60 Students
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.

Wisconsin Standards: Students discover how organisms meet their basic needs in order to survive. They cite examples of how different organisms adapt to their habitats. Students show how organisms

SNOWSHOEING

Grades K - Adult Time: 2.5 hours Max. 30 Students 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.

Wisconsin Standards: Students discover how organisms meet their basic needs in order to survive. They will celebrate personal success and achievement as well as those of others while feeling satisfaction of completing a physical activity.

SOIL SCIENCE

Grades 1 - 2 Time: 2.5 hours Max. 30 Students 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.

Wisconsin Standards: Students will show that earth materials have different physical properties, including the properties of soils found in Wisconsin. They will develop explanations for connections among living and non-living things.

STORIES IN THE SNOW

Grades PreK - 1 Time: 1.5 hours Max. 30 Students 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.

Wisconsin Standards: Students will use science themes to develop explanations for the connections of living and non-living things within various environments. They will collect data to determine the most useful explanations for what is occurring.

STRUCTURES OF LIFE

Grades 3 - 4 Time: 2.5 hours Max. 60 Students 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

Wisconsin Standards: Students discover how organisms have adapted by developing special structures to survive. They investigate how organisms respond to both internal and external cues with their environment.





SURVIVAL

Grades 4 - Adult Time: 2.5 hours Max. 50 Students 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.

Wisconsin Standards: Students will develop explanations for connections among living and non-living things. They will explain how humans impact and shape the environment and use resources.

TEAMBUILDING

Grades 4 - 8 Time: 2.5 hours Max. 60 Students
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.

Wisconsin Standards: Students will explain reasons why individuals respond differently to events and how that influences behavior. They will be able to describe conflict resolution and learn peer mediation strategies to resolve disputes.

TRACKS AND SCAT

Grades PreK - 1 Time: 2 hours Max. 30 Students 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!

Wisconsin Standards: Students will use scientific themes to develop explanations for the connections of living and non-living things within various environments. They will collect data to determine the most useful explanations for what is occurring.

TREES

Grades K - 2 Time: 2.5 hours Max. 60 Students Become a forester as students observe, compare, and describe the characteristics and changes in the trees throughout the seasons. FOSS Aligned.

Wisconsin Standards: Students will investigate how organisms respond to both internal and external cues. They will illustrate the different ways organisms grow through different life stages in order to survive. They describe how plants use energy in their daily lives.

WATER, WATER

Grades 3 - 4 Time: 2.5 hours Max. 60 Students
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.

Wisconsin Standards: Students list components of an ecosystem. Through investigations, they show how organisms both depend on and contribute to the balance or imbalance of ecosystems. Students develop connections among living and non-living

WETLANDS

Grades 3 - 6 Time: 2.5 hours Max. 60 Students 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.

Wisconsin Standards: Students list components of an ecosystem. Through investigations, they show how organisms both depend on and contribute to the balance or imbalance of ecosystems. Students develop connections among living and non-living

"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

For School Sites or Neighborhood Parks

Kindergarten through Second Grade

ANIMAL TRACKS, SCAT, AND SIGNS

Time: 1 hour Max. 35 Students 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 Max. 35 Students 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 Max. 35 Students 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 through Fifth Grade

ADAPTATIONS/FOOD CHAINS

Time: 1 hour Max. 35 Students 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.

BIRDS AND BEAKS

Time: 1 hour Max. 35 Students 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 Max. 35 Students 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.

EARTH MATERIALS

Time: 1 hour Max. 35 Students 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 Max. 35 Students 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 Max. 35 Students 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 Max. 35 Students 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 www.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 cosenroth@bubolzpreserve.org

Love of nature is a responsibility, a privilege, and a challenge.

Gordon A. Bubolz