

**Connecting Classrooms to Nature for Over
50 Years!**

2017-2018 School Programs



Where Conservation and Education Take Flight

Reserve a Program by Contacting:
rantrim@co.kendall.il.us
or
630-553-4025

For Program Information:
Email: edombrowski@co.kendall.il.us



Kendall County Forest Preserve District
110 W Madison St,
Yorkville, IL 60560

Table of Contents

Teacher Training 3
Kindergarten Programs 4-5
1st Grade Programs 6-7
2nd Grade Programs 8
3rd Grade Programs 9
4th Grade Programs 10-11
5th Grade Programs 12-13
Special Projects & Programs 14

Maramech Restoration Initiative (MS/HS)
Making Maple Magic (Early-Late Elementary)



Maramech Restoration Program

This program engages middle school and high school students within an authentic habitat management project at Maramech Forest Preserve. The program includes both classroom and field experiences introducing students to the rich natural, geologic, and cultural histories of Maramech Forest Preserve, while participating within a large-scale habitat restoration initiative.

Program Description
Location: Maramech Forest Preserve
Duration: Up to 4 hours
Fee: \$10 per student
Available: November to Mid-April

Making Maple Magic

Maple sugaring is a time-honored tradition. This program takes place in late February through March, introducing early to late elementary students to tree structure and plant photosynthesis, the process for turning sap to syrup, and differences in production approaches from Native Americans to modern times.

Program Description
Location: Hoover Forest Preserve
Duration: 2 hours
Fee: \$7 per student
Available: Late February to Late March

Teacher Training Workshops:

We offer a variety of teacher training workshops. These workshops include alignment of studies of natural areas to Common Core and Next Generation Science Standards. We also hold trainings on a variety of topics ranging from amphibians to insects to native plants. The Forest Preserve staff are eager to help you integrate environmental education into your curriculum. Let us know your training needs and we can develop workshops to meet your specific needs.

Contact:

edombrowski@co.kendall.il.us with any questions on the programs!



Kindergarten Programs:

Animals in Winter

The demands of winter requires animals to have adaptations to survive the cold and lack of available food. Students will learn about the survival methods of native animals and how it relates to humans.

Next Generation Science Standard: K-ESS3-1. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live.

Program Description
Location: At school
Duration: ½ hour
Fee: \$3 per student
Special Requirements: None
Available: Winter

Teeth of Herbivores, Omnivores, and Carnivores

Discover the relationship between dental structure and the foods eaten by different animals. Students will learn about the specialization of teeth by herbivores, omnivores and carnivores that allows them to find nourishment. Tie this ecological concept into your health units.

Next Generation Science Standard: K-ESS3-1. Use observation to describe patterns of what plants and animals (including) humans need to survive.

Program Description
Location: At school
Duration: ½ hour
Fee: \$3 per student
Special Requirements: None
Available: All year

5th Grade Programs Continued

Wetland Study

Wetlands are part of the foundation of our nation's water resources and are vital to the health of waterways and downstream communities. Students will participate in activities where they will learn that wetlands provide habitat for animals, help with flood control, and how wetland organisms provide indicators for pollution of nearby rivers and lakes.

Next Generation Science Standard: 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

Next Generation Science Standard: 5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

Program Description
Location: At school
Duration: 1 hour
Fee: \$5 per student
Special Requirements: Space to set up activity and allow classes to rotate to presentation
Available: All School Year

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5th Grade Programs

Ecology and Ecosystems of Illinois

Illinois is home to many unique ecosystems. During a visit to Harris Forest Preserve, students will rotate through four different stations as they learn about a pond, prairie, and forest habitat. Students will be able to observe firsthand how a food web is supported within each ecosystem.

Next Generation Science Standard: 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

Program Description
Location: Harris Forest Preserve
Duration: 4 Hours
Fee: \$6 per student
Special Requirements: Divide class into four groups with an adult chaperone
Available: All school year

Teeth of Herbivores, Omnivores, and Carnivores

Students will participate in eight hands on stations to explore the teeth of a variety of animals to learn about how different dentition adaptations allow different species to survive.

Next Generation Science Standard: 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

Program Description
Location: At school
Duration: 1 hour
Fee: \$5 per student
Special Requirements: Space to set up activities and allow classes to rotate to presentation
Available: All school year

Kindergarten Programs Continued:

Reptiles Verses Amphibians

These two types of animals are often confused, but a hands on introduction to two animal guests will help students discover their unique features, and learn how each survives.

Next Generation Science Standard: K-LS1-1. Use observation to describe patterns of what plants and animals (including humans) need to survive.

Program Description
Location: At school
Duration: ½ hour
Fee: \$3 per student
Special Requirements: None
Available: All year

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1st Grade Programs:

Biomimicry

Biomimicry is when humans copy an idea from nature. Students will participate in hands on activities that highlight how inventions often have roots in nature. Outdoor experience includes a hike to discover local examples of biomimicry. Next Generation Science Standard: 1-LS1-1. Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow and meet their needs.

Program Description	Program Description
Location: At school	Location: At Harris Forest Preserve
Duration: 1 hour	Duration: 2 ½ hours
Fee: \$5 per student	Fee: \$5 per student
Special Requirements: Large indoor space or outdoor area	Special Requirements: Two classes per session (am and pm)
Available: All school year	Available: Fall and Spring

Teeth of Herbivores, Omnivores, and Carnivores

Discover the relationship between dental structure and the foods eaten by different animals. Students will learn about the specialization of teeth by herbivores, omnivores and carnivores that allows them to find nourishment. Tie this ecological concept into your health units.

Next Generation Science Standard: 1-LS1-1. Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow and meet their needs.

Program Description
Location: At school
Duration: ½ hour
Fee: \$3 per student
Special Requirements: None
Available: All year

4th Grade Programs Continued

Native Americans

The Potawatomi Indians lived in the woodland, prairie, and wetland ecosystems in Illinois's past. This culture was able to provide for all of its needs by utilizing nature. Students will participate in four stations where they visit a reconstructed Potawatomi village, try bow drill fires, take a hike to explore the local ecosystems and learn about plant and animal uses, and try historical games that taught survival skills. (Social Studies connections to the ecology of native plants and animals).

Next Generation Science Standards: 4-ESS3-1
Crosscutting Concepts: Over time, people's needs and wants change, as do their demands for new and improved technologies.

Program Description
Location: Hoover Forest Preserve
Duration: 3 Hours
Fee: \$5 per student
Special Requirements: Divide class into four groups with an adult chaperone
Available: Set dates in Fall



4th Grade Programs

Fossils of Illinois

The flat topography of much of Illinois may suggest a boring geologic history, but the opposite is true! Illinois was once covered by an ocean and the fossil record provides clues to this underwater past. Students will learn about the creatures that once lived in their own backyard by exploring local fossils.

Next Generation Science Standard: 4-ESS1-1. Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.

Program Description
Location: At school
Duration: 1 hour
Fee: \$5 per student
Special Requirements: Space to set up activities and allow classes to rotate to presentation
Available: All school year

Teeth of Herbivores, Omnivores, and Carnivores

Students will participate in eight hands on stations to explore the teeth of a variety of animals to learn about how different dentition adaptations allow different species to survive.

Next Generation Science Standard: 4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

Program Description
Location: At school
Duration: 1 hour
Fee: \$5 per student
Special Requirements: Space to set up activities and allow classes to rotate to presentation
Available: All school year

1st Grade Programs Continued:

Bugfest

Insects are fascinating animals that go through the process of metamorphosis as they grow into an adult. Students will rotate through four stations where they will learn about the habitats where insects are found, life cycles of insects, insect survival strategies and even meet a beekeeper. Outdoor experience includes visits to native habitats to discover native insect examples.

Next Generation Science Standard: 1-LS3-1. Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.

Program Description	Program Description
Location: At school	Location: Harris Forest Preserve
Duration: 2 ½ hours	Duration: 2 ½ hours
Fee: \$7 per student	Fee: \$7 per student
Special Requirements: Outdoor natural area within walking distance of school	Special Requirements: Up to four classes per session (am and pm)
Available: Fall and Spring	Available: Fall and Spring

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2nd Grade Programs

Zoochory

Zoochory is when an animal assists in the planting of seeds. Students will learn about three methods used by native plants and animals to ensure that seeds are dispersed in a method that will allow them to grow. An outdoor program at Harris Forest Preserve includes a hike to discover native examples of zoochory.

Next Generation Science Standard: 2-LS2-2. Develop a simple model that mimics the function of an animal dispersing seeds or pollinating plants.

Program Description	Program Description
Location: At school	Location: Harris Forest Preserve
Duration: 1 hour	Duration: 2 ½ hours
Fee: \$7 per student	Fee: \$7 per student
Special Requirements: Large indoor space or outdoor area	Special Requirements: Two classes per session (am and pm)
Available: All school year	Available: Fall and Spring

Teeth of Herbivores, Omnivores, and Carnivores

Discover the relationship between dental structure and the foods eaten by different animals. Students will learn about the specialization of teeth by herbivores, omnivores and carnivores that allows them to find nourishment. Tie this ecological concept into your health units.

Next Generation Science Standard: 2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats.

Program Description
Location: At school
Duration: ½ hour
Fee: \$3 per student
Special Requirements: None
Available: All year

3rd Grade Programs

Animal Adaptations- Bird Beaks

Bird beaks provide clues for what a bird can and cannot eat. Students will learn about a variety of native birds and participate in an activity that challenges them to decide what each species can successfully eat in order to survive. An outdoor program at Harris Forest Preserve includes use of binoculars and observation of birds in their native habitat.

Next Generation Science Standard: 3-LS4-2 Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.

Program Description	Program Description
Location: At school	Location: Harris Forest Preserve
Duration: 1 hour	Duration: 2 ½ hours
Fee: \$5 per student	Fee: \$5 per student
Special Requirements: Large indoor space or outdoor area	Special Requirements: Two classes per session (am and pm)
Available: All school year	Available: All school year

Teeth of Herbivores, Omnivores, and Carnivores

Students will participate in eight hands on stations to explore the teeth of a variety of animals to learn about how different dentition adaptations allow different species to survive.

Next Generation Science Standard: 3-LS4-3. Construction and argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.

Program Description
Location: At school
Duration: 1 hour
Fee: \$5 per student
Special Requirements: Space to set up activities and allow classes to rotate to presentation
Available: All school year