

## Birds (1 hour/1 class)

### Upon completion of the program, students will know:

- The variety of birds which live in New York State.
- Characteristics and classification of birds.
- Bird migration and why.
- Beak and feet adaptations.

STATE STANDARD: Living Environment      SUBJECT AREA: Science  
STATE STANDARD: Geography                      SUBJECT AREA: Social Studies

## Birdhouse Network (90 min/2 classes) AVAILABLE MARCH—JUNE ONLY

### Upon completion of the program, students will:

- Understand what a cavity nester is and why they are losing nest sites.
- Know nesting habits of certain New York State birds.
- Practicing observational skills and interpreting data.
- Learn and understand conservation topics.

STATE STANDARD: Living Environment      SUBJECT AREA: Science

## Birdwatching With a Purpose: Project Feedwatcher (90 min/2 classes)

### AVAILABLE NOVEMBER—MARCH ONLY

### Upon completion of this program, students will:

- Know what birds prefer what seed type and bird natural history.
- Have observation skills to better identify species.
- Know habitat surrounding their school and what species are more prevalent in those habitats.
- Know characteristics of birds and certain adaptations.
- Know how to collect and interpret data

STATE STANDARD: Living Environment      SUBJECT AREA: Science

## Cemetery Study (2 hours/1 class)

### Upon completion of the program, students will:

- Understand how life was lived in the colonial era
- Understand the impact of nutrition on the health of colonial people
- The differences between our life style and the Colonial lifestyle
- Know what diseases colonial people faced
- Know characteristics of gravestones and understand why certain symbols were used

## Challenge Course (Full Day;/60 students)

STATE STANDARD: History of the US and NY      SUBJECT AREA: Social Studies  
STATE STANDARD: Numbers and Numeration      SUBJECT AREA: Math  
STATE STANDARD: Safe & Healthy Environment      SUBJECT AREA: Health Education  
STATE STANDARD: Safe and Healthy Environment      SUBJECT AREA: Health Education  
STATE STANDARD: Personal Health and Fitness      SUBJECT AREA: Health Education  
STATE STANDARD: Language for Info. & Understanding      SUBJECT AREA: English/Language Arts

STATE STANDARD: Interdisciplinary Problem Solving  
STATE STANDARD: Language for Social Interaction

SUBJECT AREA: Math/Science & Technology  
SUBJECT AREA: English/Language Arts

## Classroom Pond Study (1 hour/1 class) (spring only)

**Upon completion of the program, students will know:**

- The insects that make up the lower part of the food chain of the pond.
- Some of the adaptations animals in the ponds use.
- What conditions are necessary for a healthy pond.

STATE STANDARD: Living Environment      SUBJECT AREA: Science

## Climate Change and Personal Actions (90 minutes to 2 hours/2 classes)

**Upon completion of the program, students will know:**

- Students will understand how global heating works
- Students will learn how climate and ecosystems interrelate
- Students will understand how humans influence climate
- Students will be familiarized with solar and alternative power sources
- Students will be able to evaluate their own environmental impact

STATE STANDARD: Living Environment  
STATE STANDARD: Interdisciplinary Problem Solving  
STATE STANDARD: Safe & Healthy Environment  
STATE STANDARD: Resource Management

SUBJECT AREA: Science  
SUBJECT AREA: Science  
SUBJECT AREA: Health Education  
SUBJECT AREA: Health Education

## Colonial Living Skills (full day/60 students)

STATE STANDARD: History of US and NY      SUBJECT AREA: Social Studies  
STATE STANDARD: World History      SUBJECT AREA: Social Studies  
STATE STANDARD: Personal Health & Fitness      SUBJECT AREA: Health Education  
STATE STANDARD: Safe & Healthy Environment      SUBJECT AREA: Health Education

## Compass Skill Building Game (2 hours/1 class)

**Upon completion of the program, students will know:**

- The parts of a compass
- The cardinal directions
- How to use a compass

STATE STANDARD: Measurement  
STATE STANDARD: Tools, Resources & Technological Processes

SUBJECT AREA: Math  
SUBJECT AREA: Technology

## Coral Reefs (2 hours/2 classes)

**Upon completion of the program, students will know:**

- The location of coral reefs.
- The six tropical zones and their interrelationships.
- The body parts of a coral polyp and how reefs are built.
- The two types of corals.
- Who and what lives on a coral reef.
- What a coral reefs needs to be healthy.
- Current threats endangering coral reefs and what individuals can do to help.

STATE STANDARD: Living Environment  
STATE STANDARD: Impacts of Technology  
STATE STANDARD: Geography

SUBJECT AREA: Science  
SUBJECT AREA: Technology  
SUBJECT AREA: Social Studies

## Creatures of the Sea (Gr. 3– 90 minutes/2 classes: Gr. 4 & up 2 hours/2 classes)

### Upon completion of the program, students will know:

- The characteristics of the three major ocean zones.
- Characteristics of Cephalopeds
- Sea otters behaviors
- Inhabitants of the deep sea
- Threats endangering sea creatures
- How bioluminescence is used by deep sea creatures

STATE STANDARD: Living Environment    SUBJECT AREA: Science

## The Fearsome Predator: Separating Fact From Fallacy

This program is available as an in-school program and as an evening program at residential centers.

### Upon completion of the program, students will know:

- Why predators are importance
- The vital importance of healthy ecosystems
- Predator/prey balance
- Conservation issues related to top predators

STATE STANDARD: Living Environment    SUBJECT AREA: Science

STATE STANDARD: Physical Setting    SUBJECT AREA: Science

STATE STANDARD: Geography    SUBJECT AREA: Social Studies

STATE STANDARD: Resource Mgmt.    SUBJECT AREA: Health Ed.

STATE STANDARD: Interconnectedness    SUBJECT AREA: Science

**COST: \$600 per program, \$300 for each additional program at the same school on the same day (state aidable)**

## Forest Ecology (1 hour/1 class)

### Upon completion of the program, students will know:

- Students will understand the relationship between living and nonliving things in the forest
- Students will understand the forest as a community
- Know what types of trees are in their regional forest

STATE STANDARD: Living Environment    SUBJECT AREA: Science

STATE STANDARD: Physical Setting    SUBJECT AREA: Science

## Forest Measurements Plot Study (90 minutes/1 class)

### Upon completion of the program, students will know:

- Be able to identify trees in their area
- Be able to measure trees and calculate their height
- Students understand the basic concepts behind forest ecology
- Students will experience some of their local flora and fauna first hand
- Students will understand the relationships between wildlife and their habitat.

STATE STANDARD: Physical Setting

SUBJECT AREA: Science

STATE STANDARD: Measurement

SUBJECT AREA: Math

STATE STANDARD: Tools, Resources & Technological Processes

SUBJECT AREA: Technology

STATE STANDARD: Living Environment

SUBJECT AREA: Science

## Hibernation / Winter Adaptations (1 hour/1 class)

### Upon completion of the program, students will know:

- Students will know that animals have different adaptations for the winter
- Students will know which NY animals hibernate
- Students will know that bears are winter sleepers
- Students will know the carrying capacity of the forest for certain species

STATE STANDARD: Living Environment      SUBJECT AREA: Science  
STATE STANDARD: Physical Setting        SUBJECT AREA: Science  
STATE STANDARD: Geography                SUBJECT AREA: Social Studies

## Hudson River (2 hours/2 classes)

### Upon completion of the program, students will:

- Recognize the human uses and abuses of the river and what the individual can do.
- Realize the diversity of life in and near the river.
- Become familiar with the geography of the river.
- Understand the need to preserve the river.
- Experiment with methods of cleaning up polluted water through an activity.

STATE STANDARD: Living Environment                      SUBJECT AREA: Science  
STATE STANDARD: Physical Setting                         SUBJECT AREA: Science  
STATE STANDARD: Interdisciplinary Problem Solving      SUBJECT AREA: Science  
STATE STANDARD: Impacts of Technology                 SUBJECT AREA: Technology  
STATE STANDARD: Language for Social Interactions      SUBJECT AREA: English/Language Arts

## Human Impact: People and Nature (90 minutes/2 classes)

### At the completion of this program, students will know:

- Basics of wildlife biology
- One endangered species from their area and it's history
- Issues surrounding invasive species
- History of human persecution of predators and the implications of predator-free ecosystems
- Wildlife conservation vs. preservation vs. exploitation and how it affects them
- Today's scariest extinctions
- The wildlife we can't beat

STATE STANDARD: Language for Social Interactions      SUBJECT AREA: English/Language Arts  
STATE STANDARD: Living Environment                         SUBJECT AREA: Science  
STATE STANDARD: Interdisciplinary Problem Solving      SUBJECT AREA: Science  
STATE STANDARD: Safe & Healthy Environment            SUBJECT AREA: Health Education  
STATE STANDARD: Resource Management                     SUBJECT AREA: Health Education

## I'm Only One Person, What Can I Do? (2 hours/2 classes)

### Upon completion of the program, students will know:

- The difference between attitude, behavior and habit.
- How and where our habits are formed.

- The earth is limited not limitless and how that relates to our habits.
- The purpose of packaging.
- How we over-package products in this country.
- What is truly recyclable and how we can tell.
- How to choose the most environmentally friendly packages and products.
- How to pack a no-trash lunch.

STATE STANDARD: Language for Social Interactions	SUBJECT AREA: English/Language Arts
STATE STANDARD: Impacts of Technology	SUBJECT AREA: Technology
STATE STANDARD: Living Environment	SUBJECT AREA: Science
STATE STANDARD: Interdisciplinary Problem Solving	SUBJECT AREA: Science
STATE STANDARD: Safe & Healthy Environment	SUBJECT AREA: Health Education
STATE STANDARD: Resource Management	SUBJECT AREA: Health Education

## Insects: Incredible Creatures *(1 hr/1 class)*

### Upon completion of this program, students will know:

- the distinct characteristics of all insects and spiders.
- the functions of the various parts of insects.
- unique adaptations that certain insects have for defense.
- how some insects choose their homes and where they live.

STATE STANDARD:		
STATE STANDARD: Living Environment	SUBJECT AREA: Science	
STATE STANDARD: Interconnectedness	SUBJECT AREA: Science	

## Jacob's Ladder Toy Making *(1 hour/1 class)*

STATE STANDARD: History of US & NY	SUBJECT AREA: Social Studies
STATE STANDARD: Language for Information & Understanding	SUBJECT AREA: English/Language Arts

## Mammals of New York State *(90 minutes/1 classes)*

### Upon Completion of the program students will:

- Name the characteristics of a mammal.
- Understand predator/prey relationships, adaptation and interdependence
- Be able to create a food chain/web
- Know some of the unusual mammals of New York

STATE STANDARD: Living Environment	SUBJECT AREA: Science
STATE STANDARD: Physical Setting	SUBJECT AREA: Science

## Mapping *(Spring only) (full day/1 class)*

### Upon completion of the program, students will:

- Understand and be able to use all parts of the map
- Understand scale
- Be able to map an area

STATE STANDARD: Modeling/Multiple Representation	SUBJECT AREA: Math
STATE STANDARD: Measurement	SUBJECT AREA: Math
STATE STANDARD: Interconnectedness- Magnitude & Scale	SUBJECT AREA: Math/Science/Technology

## Marine Ecosystems (2 hours/2 classes)

### Upon completion of the program, students will know:

- The importance of marine ecosystems.
- The characteristics of four different marine ecosystems.
- The unique plants and animals which inhabit each ecosystem.
- Characteristics of hydrothermal vent communities.
- The dangers of pollution on marine life.

STATE STANDARD: Living Environment      SUBJECT AREA: Science  
STATE STANDARD: Physical Setting      SUBJECT AREA: Science

## Marine Life (1 hour/1 class)

### Upon completion of the program, students will know:

- Different types of marine ecosystems.
- The unique plants and animals of the ocean.
- The food chains/webs that occur in the ocean.

STATE STANDARD: Living Environment      SUBJECT AREA: Science  
STATE STANDARD: Physical Setting      SUBJECT AREA: Science

## Native American (1 hour or can be a full day program/1 class)

### Upon completion of the program, students will:

- Students will know local tribes of the Hudson Valley
- Students will know the tools Native Americans used in everyday life
- The types of houses and structures Native people built

STATE STANDARD: History of US & NY      SUBJECT AREA: Social Studies  
STATE STANDARD: Geography      SUBJECT AREA: Social Studies  
STATE STANDARD: Living Environment      SUBJECT AREA: Science

## Nature Activities (60 minutes/1 class)

### Upon completion of the program, students will:

- Population dynamics of wildlife
- The human dimensions of wildlife
- The interconnectedness of nature
- Animal adaptations
- How people affect wildlife

STATE STANDARD: Living Environment      SUBJECT AREA: Science  
STATE STANDARD: Physical Setting      SUBJECT AREA: Science

## Nature Scavenger Hunt (1 hour/1 class)

### Upon completion of the program, students will:

- Students will have explored their local habitats
- Students will have a heightened awareness of their surroundings

STATE STANDARD: Living Environment      SUBJECT AREA: Science  
STATE STANDARD: Interconnectedness      SUBJECT AREA: Math/Science/Technology

## Nature Story Telling *(45 min/1 class)*

STATE STANDARD: Living Environment  
STATE STANDARD: Language for Info & Understanding  
STATE STANDARD: Language for Literary Response

SUBJECT AREA: Science  
SUBJECT AREA: English/Language Arts  
SUBJECT AREA: English/Language Arts

## Nocturnal World of New York *(1 hour/1 class)*

### Upon completion of the program, students will know:

- Many different nocturnal animals that are found in New York.
- How to identify them by the sounds they make.
- That owls make a variety of sounds, not only the famous “hoo, hoo”.
- That the night is not a scary place.
- Practice the use of their other senses

STATE STANDARD: Living Environment  
STATE STANDARD: Language for Information & Understanding

SUBJECT AREA: Science  
SUBJECT AREA: Science

## Orienteering *(Full Day/ 60 students)*

### Upon completion of the program, students will:

- Know how to use a compass
- Understand how to determine direction
- Understand how to use their pace to measure a distance
- Have the opportunity to work in a corporative group

STATE STANDARD: Measurement  
STATE STANDARD: Tools, Resources & Technological Processes

SUBJECT AREA: Math  
SUBJECT AREA: Technology

## Native American *(1 hour or can be a full day program/1 class)*

### Upon completion of the program, students will:

- Students will know local tribes of the Hudson Valley
- Students will know the tools Native Americans used in everyday life
- The types of houses and structures Native people built

STATE STANDARD: History of US & NY  
STATE STANDARD: Geography  
STATE STANDARD: Living Environment

SUBJECT AREA: Social Studies  
SUBJECT AREA: Social Studies  
SUBJECT AREA: Science

## Nature Activities *(60 minutes/1 class)*

### Upon completion of the program, students will:

- Population dynamics of wildlife
- The human dimensions of wildlife
- The interconnectedness of nature
- Animal adaptations
- How people affect wildlife

STATE STANDARD: Living Environment  
STATE STANDARD: Physical Setting

SUBJECT AREA: Science  
SUBJECT AREA: Science

## Nature Scavenger Hunt *(1 hour/1 class)*

### Upon completion of the program, students will:

- Students will have explored their local habitats
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STATE STANDARD: Living Environment  
STATE STANDARD: Interconnectedness

SUBJECT AREA: Science  
SUBJECT AREA: Math/Science/Technology

## Nocturnal World of New York *(1 hour/2 classes)*

### Upon completion of the program, students will know:

- Many different nocturnal animals that are found in New York.
- How to identify them by the sounds they make.
- That owls make a variety of sounds, not only the famous “hoo, hoo”.
- That the night is not a scary place.
- Practice the use of their other senses

STATE STANDARD: Living Environment  
STATE STANDARD: Language for Information & Understanding

SUBJECT AREA: Science  
SUBJECT AREA: Science

## Owl Pellet Study *(2 hours/1 class)*

### Upon completion of the program, students will know:

- The different species of owls in NYS.
- The digestive system of owls and what owls eat.
- The structure of the prey’s skeleton.

STATE STANDARD: Living Environment    SUBJECT AREA: Science

## Pond Ecology *(spring only) (1 hour/1 class)*

### Upon Completion of the program, the students will:

- Students will know the plants and aquatic life that live in ponds
- Students will know the life cycle of a dragonfly, mayfly, damselfly, mosquito and frog
- Students will know the layers of a pond
- Students will know the importance of ponds for all living things
- Study will learn how to key out aquatic life
- Study will learn how pollution affects aquatic life

STATE STANDARD: Living Environment    SUBJECT AREA: Science  
STATE STANDARD: Physical Setting        SUBJECT AREA: Science

## Raptors Around Us *(90 minutes/2 classes) \*Please note special program fee.*

### Upon completion of this program students will understand:

- Characteristics of raptors/birds of prey
- Different species of New York raptors
- Different families of diurnal birds of prey
- Adaptations unique to owls
- Role of predators in the environment
- Predator/prey relationships

- Relationships between humans and birds of prey throughout history
- Basics of falconry
- Historic effects of DDT and other pesticides on the ecosystem
- How human society impacts wild systems

STATE STANDARD: Living Environment      SUBJECT AREA: Science  
 STATE STANDARD: Geography              SUBJECT AREA: Social Studies

## Sea Turtles & Sea Turtles – Youth

*(Grade 3: 90 min /2 classes; Grades 4 and up: 2 hours/2 classes)*

**Upon completion of the program, students will know:**

- How to classify sea turtles.
- How long sea turtles have been on Earth.
- The anatomy of a sea turtle.
- The five main types of sea turtles found in the US.
- How sea turtles use the ocean and land.
- Why sea turtles are endangered and laws that protect them.

STATE STANDARD: Living Environment              SUBJECT AREA: Science  
 STATE STANDARD: Impacts of Technology          SUBJECT AREA: Technology  
 STATE STANDARD: Interconnectedness            SUBJECT AREA: Science

## Seed Study *(1 hour/1 class)*

**Upon completion of the program, students will:**

- Students will learn the characteristics of a seed
- That seeds come in a variety of shapes, sizes, and colors
- The conditions seeds need to grow
- How seeds travel

STATE STANDARD: Living Environment      SUBJECT AREA: Science

## Sharks: Misunderstood Monsters *(90 minutes/2 classes)*

**Upon completion of the program, students will know:**

- What makes a shark different from other marine creatures.
- Myths vs. facts about sharks.
- Shark adaptations.
- The senses sharks use.
- Different types of sharks and what they eat.
- How sharks give birth.
- Why sharks attack humans.
- Human exploitation of sharks.
- The role sharks play in the balance of the marine ecosystem.

STATE STANDARD: Living Environment              SUBJECT AREA: Science

## Survival/Primitive Skills *(90 minutes/1 class)*

**Upon completion of the program, students will:**

- Students will understand the four basic human needs: food, water, shelter, and air.
- Students will gain first hand experience at the skills needed for wilderness and urban survival.

STATE STANDARD: Interdisciplinary Problem Solving              SUBJECT AREA: Math/Science/Technology

STATE STANDARD: Language for Social Interaction

SUBJECT AREA: English/Language Arts

STATE STANDARD: Language for Information & Understanding

SUBJECT AREA: English/Language Arts

STATE STANDARD: Safe & Healthy Environment

SUBJECT AREA: Health Education

STATE STANDARD: Personal Health & Fitness

SUBJECT AREA: Health Education

## Team Building Activities (90 minutes-2 hours/1 class)

STATE STANDARD: Language for Social Interaction

SUBJECT AREA: English

STATE STANDARD: Language for Info & Understanding

SUBJECT AREA: English

STATE STANDARD: Personal Health and Fitness

SUBJECT AREA: Health Education

STATE STANDARD: Safe & Healthy Environment

SUBJECT AREA: Health Education

STATE STANDARD: Interdisciplinary Problem Solving

SUBJECT AREA: Math/Science/Technology

## Tropical Rainforests & Tropical Rainforest -Youth

(Grade 3: 90 minutes/2 classes; Grades 4 and up: 2 hours/2 classes)

**Upon completion of the program, students will know:**

- Characteristics of a rainforest, and how they are different from our forests.
- The diversity of life in rainforests.
- The threats facing rainforests.
- The political, economic and social reasons for the destruction of rainforests.
- Why rainforests should be preserved and what we can do to help.
- How our lives and choices impact the rainforest.

STATE STANDARD: Living Environment

SUBJECT AREA: Science

STATE STANDARD: Physical Setting

SUBJECT AREA: Science

STATE STANDARD: Geography

SUBJECT AREA: Social Studies

STATE STANDARD: Interconnectedness

SUBJECT AREA: Science

STATE STANDARD: Impacts of Technology

SUBJECT AREA: Science

STATE STANDARD: Language for Social Interaction

SUBJECT AREA: English

## Turtles, Frogs, Toads, Snakes, What's the Difference? (1 hour/1 class)

**Upon completion of the program, students will know:**

- The major characteristics of reptiles.
- The major characteristics of amphibians.
- Biological adaptations of reptiles and amphibians.
- Habitat of reptiles and amphibians.
- Local reptiles and amphibians.
- Major differences between venomous and non-venomous snakes, specific to snakes in New York.

STATE STANDARD: Living Environment

SUBJECT AREA: Science

STATE STANDARD: Geography

SUBJECT AREA: Social Studies

## We All Live in a Watershed (2 hours/2 classes)

**Upon completion of the program, students will know:**

- The 3 basic needs for humans (food, water, shelter).
- How much water is on our planet.
- Characteristics of a watershed.
- Where water comes from.
- What makes water move through the water cycle.

- What watershed we live in and where we get our water.
- The relationship between water and land.
- How people pollute their watershed.

STATE STANDARD: Geography	SUBJECT AREA: Social Studies
STATE STANDARD: Living Environment	SUBJECT AREA: Science
STATE STANDARD: Physical Setting	SUBJECT AREA: Science
STATE STANDARD: Interconnectedness	SUBJECT AREA: Science
STATE STANDARD: Impacts of Technology	SUBJECT AREA: Technology

## Weather *(90 minutes/1 class)*

### Upon completion of the program, students will:

- Students will understand all components of the water cycle
- Students will understand the forces that drive the weather and weather systems
- Students will learn how to use simple tools used in weather forecasting
- Students will learn the basic of weather prediction

STATE STANDARD: Living Environment	SUBJECT AREA: Science
STATE STANDARD: Physical Setting	SUBJECT AREA: Science
STATE STANDARD: Technology	SUBJECT AREA: Science

## Wildlife & Wildlife-Youth *(Grades K – 3: 1 hour/2 classes; Grades 4-6: 2 hours/2 classes)*

### Upon completion of the program, students will;

- Understand the differences between warm-blooded and cold-blooded animals.
- Be aware of the variety in wildlife classification (insect to mammal)
- The differences between herbivores and carnivores.
- Why animals use camouflage.

STATE STANDARD: Geography	SUBJECT AREA: Social Studies
STATE STANDARD: Living Environment	SUBJECT AREA: Science
STATE STANDARD: Interconnectedness	SUBJECT AREA: Science

## Wolves *(90 minutes/2 classes)*

### Upon completion of the program, students will know:

- The different kinds of wolves and where they are found in the US.
- The differences between wolves, dogs and other wild canines.
- Wolf myths.
- Life in a wolf pack.
- The family life of wolves.
- What wolves eat and how they hunt.
- Current wolf restoration information.

STATE STANDARD: Geography	SUBJECT AREA: Social Studies
STATE STANDARD: History of US & NY	SUBJECT AREA: Social Studies
STATE STANDARD: Living Environment	SUBJECT AREA: Science
STATE STANDARD: Physical Setting	SUBJECT AREA: Science
STATE STANDARD: Interconnectedness	SUBJECT AREA: Science