

# New York State Parks School Programs

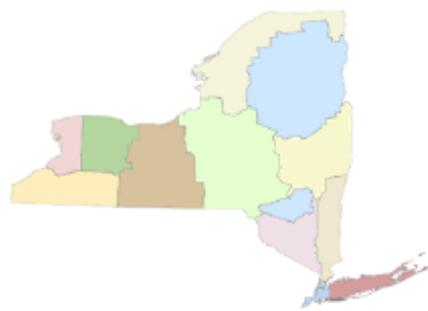
## Discover the Wonder

Through Hands-On  
Educational Programs



Environmental  
Education  
Programs

- Elementary
- Intermediate
- High School



Aligned with  
New York State  
Learning Standards



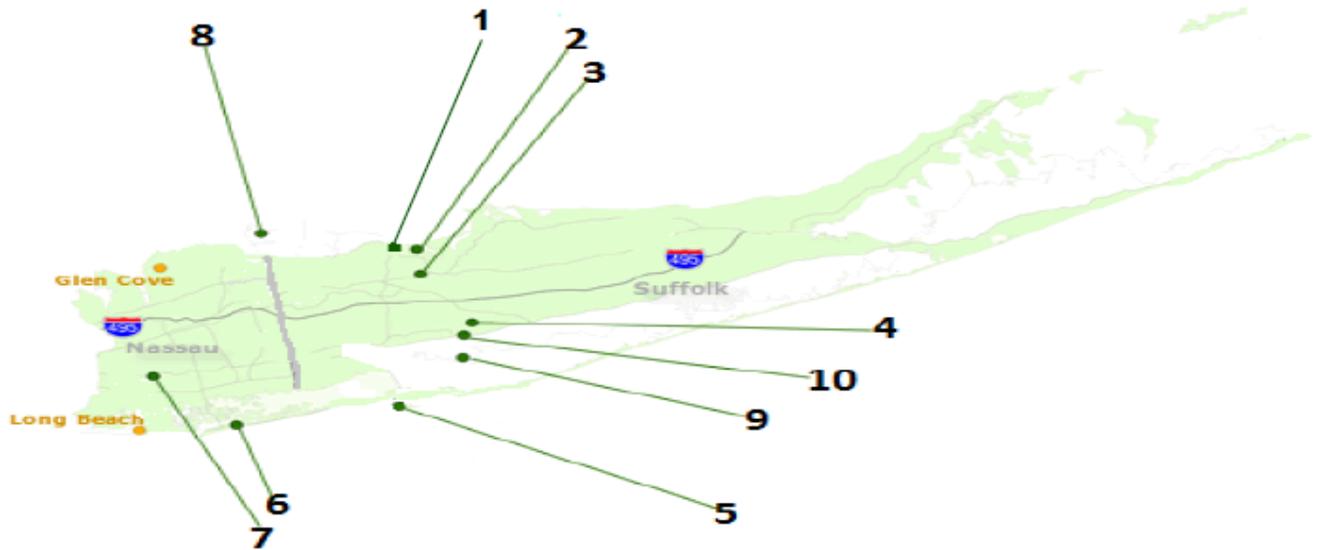
## About Our Parks:

- Long Island Parks are carry-in carry-out facilities. Kindly take home your litter and dispose of it properly.
- For your safety, remain on trails to avoid ticks and poison ivy.
- Help keep wildlife healthy, do not feed wild animals.

## Registration:

Field Trip Reservations	The following programs are available to help teachers meet the New York State Core Curriculum Standards for science. The emphasis will be a hands-on approach to learning. Children will practice problem solving skills, develop a positive attitude toward science, and increase their scientific literacy. Content and duration of educational programs can be adapted to meet your needs.
Cancellations	If you are unable to keep your reservation, please call and cancel so others may have the opportunity to attend. Failure to do so may result in loss of reservations for future programs.
Fees	\$3.00 per child, \$4.00 per adult. Fees apply to all students and chaperones. There is no charge for teachers. Parking fees may apply.
Mailing List	If you would like to receive our public quarterly environmental education brochure, please call (631)581-1072 or send a postcard with your name and address to Connetquot State Park Preserve, Environmental Office, P.O. Box 248 Babylon, NY 11702.

**New York State Parks that offer School Programming:**



<u>KEY:</u>	<u>FOR RESERVATIONS, CALL:</u>
1. Sunken Meadow State Park	(631) 581-1072
2. Nissequogue River State Park	(631) 581-1072
3. Caleb Smith State Park Preserve	(631) 265-1054
4. Connetquot State Park Preserve	(631) 581-1072
5. Robert Moses State Park	(631) 581-1072
6. Jones Beach State Park	(516) 785-3614
7. Hempstead Lake State Park	(631) 581-1072
8. Caumsett State Park Preserve	(631) 581-1072
9. Heckscher State Park	(631) 581-1072
10. Bayard Cutting Arboretum	(631) 581-1072

<u>PROGRAMS</u>	<u>PROGRAM AVAILABLE AT THE FOLLOWING STATE PARKS:</u>
Butterflies and Moths	Nissequogue, Caleb Smith, Connetquot, Jones Beach, Hempstead
Creature Creations	Nissequogue, Caleb Smith, Connetquot, Jones Beach, Hempstead
Geology Rocks	Nissequogue, Caleb Smith, Connetquot, Jones Beach, Hempstead
Long Island Sound Saunter	Sunken Meadow, Nissequogue
Native American History and Games	Nissequogue, Caleb Smith, Connetquot, Jones Beach, Hempstead
River Walk	Caleb Smith, Connetquot
Salt Marsh Biology	Sunken Meadow, Nissequogue, Caumsett
Seashore Biology	Sunken Meadow, Nissequogue, Robert Moses, Jones Beach, Caumsett, Heckscher
Seasonal Nature Walks	Sunken Meadow, Nissequogue, Caleb Smith, Connetquot, Robert Moses, Jones Beach, Hempstead Lake, Caumsett, Heckscher
Sound Studies (*Bay Studies)	Sunken Meadow, Nissequogue, Caleb Smith, Caumsett, *Robert Moses, *Jones Beach, *Heckscher
Trees are Terrific	Sunken Meadow, Nissequogue, Caleb Smith, Connetquot, Caumsett, Heckscher
Wet & Wild	Caleb Smith, Connetquot, Hempstead
Winter Bird Exploration	Sunken Meadow, Nissequogue, Caleb Smith, Connetquot, Robert Moses, Jones Beach, Hempstead Lake, Caumsett, Heckscher
Winter Wildlife Safari	Sunken Meadow, Nissequogue, Caleb Smith, Connetquot, Jones Beach, Hempstead Lake, Caumsett, Heckscher

## BAYARD CUTTING ARBORETUM STATE PARK:

School Programs: (also offers guided tours)

**The Arboretum**– Walk through the gardens

**Westbrook Manor**– Discover the history of the 1886 manor house

**CSA Farm**– A 14-acre garden that offers a seasonal hands-on activity

## Standards Key:

Standard 1: Analysis, Inquiry, and Design. M=Mathematical, S=Scientific

Standard 2: Information Systems. I=Information Systems

Standard 3: Mathematics. N=Numbers, M=Measurements

Standard 4: Science. PS=Physical Setting, LE=Living Environment

Standard 5: Technology. I=Impacts

Standard 6: Interconnectedness, Common Theme. P=Patterns of Change,  
O=Optimization, ST=Systems Thinking, E=Equilibrium & Stability

## EDUCATION PROGRAMS

## Butterflies and Moths

Available April-October

Students will giggle as others dress up as butterflies and moths during a show. They will explore the differences and similarities between these insects, discovering the fascinating ways moths and butterflies trick predators in order to survive. Students will also have the opportunity to observe these insects in the wild during a short hike.



Elementary Science	Intermediate Science	High School Science
Standard 6: 1,3,4 Standard 4 (LE): 2.1a, 2.1b, 3.1a, 3.1c, 4.1a-g, 5.1b, 5.2b-e	Standard 4 (LE): 1.1g, 1.1h, 4.3d, 5.1a, 5.1b	Living Environment Standard 4: 1.1b, 3.1g, 4.1a

## Creature Creations

Available All Seasons

Learn how the physical features of a species are shaped by its environment during a discussion of animal adaptations (high school classes will discuss natural selection and survival of the fittest). Using simple materials, in small groups, students will be challenged to create a brand new bird species that must fit a particular habitat and diet.



Elementary Science	Intermediate Science	High School Science
Standard 1:T1.1, T1.3, T1.4 Standard 6: 1,3,4 Standard 7: 1,2 Standard 4(LE): 2.1a, 2.1b, 2.2b, 3.2a, 3.2b, 5.1b	Standard 1: S1.2, S1.3, S1.4 Standard 7: 2.1 Standard 4 (LE): 1.1g, 1.1h, 2.2a, 3.1b, 5.1a, 5.1b, 5.1d	Living Environment Standard 1: 1.1b, 1.4a Standard 4: 3.1a, 3.1e, 3.1f, 3.1g, 3.1h, 3.1i, 3.1l, 6.1e

## Geology Rocks

Available All Seasons

Students will be introduced to the basics of geology using a variety of hands-on activities and simple experiments. They will explore the properties of rocks, including density, conductivity, and magnetism. We will wrap up with an eye-opening discussion on the practical uses for rocks and minerals in our daily life.



Elementary Science	Intermediate Science	High School Science
Standard 1: S1.1, S1.2, S1.3 Standard 4 (PS): 2.1d, 3.1c, 3.1d, 3.1f, 4.2b Standard 7: 1,2	Standard 1: S1.1, S1.2 Standard 7: 2.1 Standard 4 (PS): 2.1c, 2.1d, 2.1e, 2.1g, 2.2f, 2.2g, 2.2h,	Earth Science: Standard 4: 1.2i, 2.1s, 3.1 Standard 6: 2

## Long Island Sound Saunter

Available April-October

The perfect program for some end of the year fun! Have the bus drop you off at Nissequogue River or Sunken Meadow State Park and hike approximately 3 miles to Sunken Meadow or Nissequogue State Park. With a Park Naturalist as your guide, you will explore the geology and ecology of the Long Island Sound along your hike. Bring lunch and enjoy a picnic at the Park where the bus will pick you up.



Elementary Science	Intermediate Science	High School Science
Standard 4 (LE): 1, 2, 3, 4, 5.2, 6.1	Standard 1: 1 Standard 4 (PS): 2.1g, h, I, j (LE): 3, 5, 7.1	*Can be adapted to meet your needs

## Native American History and Games

Available All Seasons

Students will explore the land once traveled by the Secatogue Indians on a short walk. They will discover how Native Americans learned survival skills and played games using local resources. Students will understand where Native Americans got their clothing, and food, and how they wasted very little of their resources.



Elementary Science	Intermediate Science	High School Science
Standard 4 (PE): 3,4 (LE): 1, 2, 3.1, 4, 4.2, 5.1, 5.2, 5.3, 6, 7 Standard 6: ST1, E 4 & 5 Social Studied: S1.1, 1.2, 3.2	Standard 1: S1.1a&b Standard 4 (PS): 1 (LE): 1, 2, 3.1, 3.2, 4, 4.2, 5.1, 5.2, 5.3, 6, 7 Standard 6: ST1, E4&5	Not age appropriate

## River Walk



### Available All Seasons

We will examine the importance of clean water, the role the pine barrens play in keeping our groundwater clean, as well as humans influence on the environment. Students will explore the Connetquot or Nissequogue River with a walk through the various habitats.

Elementary Science	Intermediate Science	High School Science
Standard 1: S1	Standard 1: S1	Living Environment Standard 4: 1.1b
Standard 4 (PS): 1, 2, 4, 5 (LE): 1, 6, 7	Standard 4 (PS): 1, 2, 4, 5 (LE): 3, 6, 7	*Can be adapted
Standard 5: 5	Standard 5: 5	
Standard 6: 1	Standard 6: 1	

## Salt Marsh/Seashore Biology



### Available April-October

As students explore the marsh they will gain a better understanding of this fascinating ecosystem. Children will learn about the importance of wetlands and how plants, animals, and people depend on them for their well-being.

Elementary Science	Intermediate Science	High School Science
Standard 1: S1.1a, S1.1b, S1.2a, S1.3, 6.1	Standard 1: S2.1, I3.2	Living Environment
Standard 4 (LE): 1.1, 1.2, 3.1, 3.2, 4.1, 4.2, 5.1, 5.2, 6.1, 7.1 (PS): 1.1, 2.1, 3.1g, 3.2	Standard 4 (PS): 1.1e, 2.1h, I, j (LE): 1.1, 3.2, 5.1, 6.1, 7.1, 7.2	Standard 1.1 Standard 4: 1, 3, 4, 7
		Earth Science Standard 4: 1.1a, I, 2.1, 2.2
		*Can be adapted

## Seasonal Nature Walks

### Available All Seasons

You and your class will enjoy a leisurely walk through the woodland trails to discover the changes taking place throughout the year.



**Fall:** Study leaf changes, and discuss the different ways plants and animals prepare for winter.

**Winter:** What are mammals and birds doing at this time of year? Where can they be found?

**Spring:** As the temperature rises, see animals and birds returning to their favorite State parks!

**Summer:** Discover the diversity of trees on Long Island while exploring the blooming forests.

Elementary Science	Intermediate Science	High School Science
Standard 1: S1 Standard 4 (PS): 1, 2 (LE): 1, 2, 3, 4, 5, 6, 7 Standard 6: S1	Standard 1: S1 Standard 4 (PS): 1, 2 (LE): 1, 2, 3, 4, 5, 6, 7 Standard 6: S1	*Can be adapted

## Sound/Bay Studies

### Available All Seasons

Students learn about the water cycle and gain an awareness for conserving and protecting our natural resources. They discover the different ways that people use and influence the Long Island Sound and the Great South Bay. The importance of clean water and other related issues, such as pollution, can also be addressed.



Elementary Science	Intermediate Science	High School Science
Standard 1: S1.1, S1.3, T1.1, Sys 6.1 Standard 4 (PS): 2.1, 3.1d, e, 3.2, 4.2a, 5.1a-e (LE): 1.1, 1.2, 3.1, 4.1, 5.2, 6.1, 6.2, 7.1	Standard 1: S1.1, I3.2 Standard 4 (PS): 2.1h, I, j (LE): 5.1, 6.1, 7.1, 7.2	Living Environment Standard 1,2,3 Standard 4: 1, 3, 4, 7 Earth Science: Standard 4: 1.1a, I, 1.2f, g

## Trees are Terrific

Available All Seasons



Through hands-on activities student will learn about the structures of trees as well as develop identification skills. A short hike will follow to explore the forest in the park and put your skills to the test.

Elementary Science	Intermediate Science	High School Science
Standard 1: S1, S3 Standard 4 (PS): 2 (LE): 1, 3, 4, 5, 6, 7 Standard 6: S1, S2 Standard 7: C1	Standard 1: S1, S3 Standard 4: P2 L1, L3, L4, L5, L6, L7 Standard 6: S1, S2 Standard 7: C1	Living Environment Standard Standard 1: 1, 2 Standard 4: 1.1a, b, 3.1g, 5.1a, b, 5.2a, b, 6.1a, b, c, d, e *Can be adapted

## Wet & Wild

Available April-October



Students will discover the underwater world found in ponds through hands-on sampling, and other field observations. Water chemistry and testing can be added for older grades. After visiting the pond, the class will go indoors to look at microscopic organisms and discuss their role in the food chain (attendance limit).

Elementary Science	Intermediate Science	High School Science
Standard 1: S1, S3 Standard 4 (LE): 1, 2, 3, 4, 5, 6, 7 Standard 6: S1 Standard 7: C1, S2	Standard 4 (PS): P2, P3 (LE): 1, 2, 3, Standard 7: C1, S2	The Living Environment Standard 4: 1.1a, d, f, 3.1g, 5.1a, b, 6.1a *Can be adapted

# Winter Bird Exploration

Available November-March

Your class will identify the many types of waterfowl and birds that visit the Park's waterways during the winter months. We'll set up spotting scopes and survey the birds' feeding areas to observe our feathered friends. Adaptations in surviving the cold are discussed while dressing up in costumes.

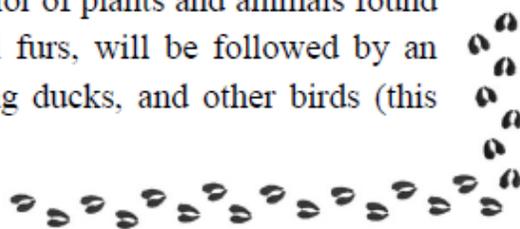


Elementary Science	Intermediate Science	High School Science
Standard 1: S1, S2 Standard 4 (PS): 1, 2, 4, (LE): 1, 2, 3.1, 3.2, 4, 5, 6 Standard 5: I6 Standard 6: E1, P5 Social Studies	Standard 1: S1, S2 Standard 2: I1 Standard 3: N2 Standard 4 (PS): 1, 2, 4 (LE): 1, 2, 3.1, 3.2, 4, 5, 6 Standard 5: I6 Standard 6: E1, P5	Living Environment Standard 4: 1.1b *Can be adapted

# Winter Wildlife Safari

Available September-March

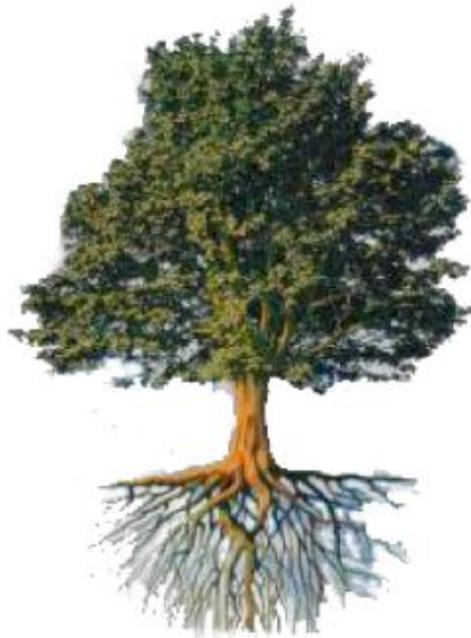
Your class will discover the winter survival behavior of plants and animals found in the park. Activities, such as observing animal furs, will be followed by an outdoor safari to look for signs of deer, wintering ducks, and other birds (this program is completely outdoors at some parks).



Elementary Science	Intermediate Science	High School Science
Standard 1: S1 Standard 4 (PS): 1, 2 (LE): 1, 3.1, 3.2, 4, 5, 6 Standard 6: S1, S4 Social Studies	Standard 1: S1 Standard 4 (PS): 1 (LE): 3.1, 3.2, 4, 5, 6 Standard 6: S1, S4 Social Studies	Living Environment Standard 4: 1.1a, b, c, d, 3.1g, 6.1a, d *Can be adapted

**Mailing Address:**

Regional Environmental Education Office  
New York State Office of Parks, Recreation, and Historic Preservation  
P.O. Box 247  
Babylon, NY 11702  
**(631) 581-1072**



*"The objective is to teach the student to see the land,  
to understand what he sees, and enjoy what he understands."*

**-Aldo Leopold**