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### Three Entities, One Great Team!


We offer comprehensive programming for school groups, visitors and home schooled children. Our featured traveling exhibits and expanded permanent exhibits are combined with innovative programming to give you and your students a well-rounded and educational visit.

Our entire staff takes great pride in bringing you this Education Programming Guide for the 2019-2020 year. We are looking forward to helping you ignite the spark of excitement in the children that you teach.
Programs from The Children’s Museum

There are several ways you can access our resources:

Field trips to the Museum

• Our highly trained educators will conduct the Museum class(es) of your choice in one of our onsite classrooms.
• Planetarium classes in the Gengras Planetarium are always popular, combining learning with a sense of wonder in an immersive environment.
• Teachers may choose a combination of Museum workshops and planetarium programs. Students will still have plenty of time to explore exhibits.

Traveling Programs

We can come to you! Museum traveling educators will arrive at your school ready to wow your students with science. Whether you select an in-class or large assembly program, our educators will deliver a fun and exciting experience.

### Field Trips

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<th>Classroom Program or Planetarium Class</th>
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<tr>
<td>45 Min</td>
<td>Varies</td>
<td>One $9/student Two $15/student Three $22/student</td>
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### Traveling Programs

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• Science Reads Literacy Add-on, Grades K-2, $25 for a 60 minute program
• Traveling programs incur an added fee based on mileage, additional rates apply for distances greater than 25 miles.

Classroom programs with an additional material fee

Book your program today!

Contact us at:
Phone: 860.726.4008
E-mail: Events@TheChildrensMuseumCT.org

After your reservation is made you will receive a confirmation letter that includes details of your visit.

Please Note: Your trip is NOT confirmed until you receive this notification.

All Children’s Museum field trip and traveling programs are aligned with the Next Generation Science Standards. For more information, call 860.726.4008, or see our website: www.TheChildrensMuseumCT.org/educators
### Classroom Programs

#### Live Animal Programs

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#### Starlabs

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# Planetarium Classes

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## Full-Dome Presentations
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## NGSS Core Ideas
- **ESS1: Earth's Place in the Universe**
- **ESS2: Earth's Systems**
- **ESS3: Earth & Human Activity**
- **ETSI: Engineering Design**

- PSI: Matter & Its Interactions
- PS2: Motion & Stability
- PS3: Energy
- PS4: Waves and Their Applications
- LS1: From Molecules to Organisms
- LS2: Ecosystems: Interactions, Energy & Dynamics
- LS3: Heredity: Inheritance and Variation of Traits
- LS4: Biological Evolution: Unity and Diversity

For more information regarding our museum and/or our educational programming, please go to [www.TheChildrensMuseumCT.org](http://www.TheChildrensMuseumCT.org)
Field Trips to The Children’s Museum

The Children’s Museum and Roaring Brook Nature Center are committed to offering an environment that not only maximizes learning, but provides an outstanding level of service, from our quick and easy reservations system to a warm goodbye as you depart. We pride ourselves on our superior customer service to you, the teacher, as well as the students and chaperones who accompany you.

Program Scheduling

• Museum field trips are scheduled Tuesday - Friday from September through April, and Monday - Friday during May and June. Please have alternate dates, programs and times in mind when booking, as our schedule fills up quickly.

  Classroom and Planetarium programs begin at 9:45 a.m. • 10:45 a.m. • 12:00 p.m. & 1:00 p.m.

• Programs are approximately 45 minutes.
• Classrooms accommodate up to 30 students and 4 adults.
The Gengras Planetarium seats up to 145 people. To adhere to fire regulations, we must limit the number of people in the classrooms and planetarium.

School Group Rates

The provided rates are per student and include a self-guided tour of the museum. Please note that some classes/shows require additional fees.

There is a minimum fee of $135 per program for classes presented by Museum staff and a $180 minimum fee for groups attending a Planetarium Show.

Payment

Payment in full is necessary upon arrival.
We accept: Cash (large bills only, please), Check (Business or bank), MasterCard, Visa

PLEASE NOTE: The Children’s Museum does not accept the following forms of payment for students or chaperones:
• Discount tickets or Library Passes
• Purchase Orders (unless prior arrangements are made)
• The Children’s Museum or reciprocal memberships.
  (Memberships at our museum are valid for family visits only.)

Chaperone Policy

• One chaperone is required for every 10 students.
• Requests to add chaperones after the reservation is completed will be accommodated subject to availability.

Lunch Arrangements

• Outdoor picnic areas available but may not be reserved. Space is limited.
• Depending on the day’s schedule, classrooms may serve for lunch space but there is no guarantee of availability. Please be sure to make alternate lunch arrangements.

Special Needs

Please inform the Registration Department of any special needs including learning or physical disabilities, behavioral issues, or language barriers. Wheelchair accessibility is limited to outside entrances. There are no elevators or ramps within the Museum.
We regularly travel to events such as:

• After school programs
• A wide variety of summer and holiday camps
• Library events
• Scout meetings and events
• School science fairs and other evening school events
• Town fairs and other community events

We will work with you to find the perfect program that meets your needs.

Unable to make a trip to the museum?
Still want to give your students a unique and educational science experience? The Children’s Museum’s Traveling Programs can bring almost any of our programs to you! Our programs travel to schools, libraries, camps, homeschool groups and more! Contact us today for more information about how we can plan a program that meets your needs.

The Wizard’s Lab
Science Showcase
Grades K-8: Participants will engage in hands-on science experiments covering a wide variety of interesting science topics. Activities will be fun and education for all ages. Program can be set up for ongoing demonstrations at science fairs, back to school nights or other family activities. Ask about any special topics you might like to include during this program.

Museum Series Bookings
Make the museum a regular part of your program! We can make a variety of arrangements to bring programming to your students on a regular basis. Special discount pricing is available.

Possible options would include:
• A set of fall, winter, spring and summer seasonal programs
• Monthly programs held at your site
• A weekly program at your site for a series of 6, 8 or more weeks
• A set of wildlife programs, or hands-on programs, or science assemblies, or a mixture of program types.

Specific programs offered could include any of our available Traveling Programs.
What you’ll find at
The Children’s Museum

Engineering!
Live Animals!
Art
Demonstrations
Hands on Exhibits
Space!
Engaging Programs

Or let us bring the museum to you!
Assembly Programs

Choose Your Own Science Adventure

Field Trips OR Traveling Programs

Grades K - 8: Our Science Adventures allows you to choose three topics, each filled with spectacular and educational demonstrations. Choose three of the fun-filled topics below.

Don’t see exactly what you are looking for? Have a special topic or theme from class you’d like to build upon? Call us today and speak with one of our educators about what we can arrange especially for your students. The museum has numerous resources we can adapt for your classroom.

- **Animals**: Two live animals from our sanctuary will travel to your school. Students will learn to compare and contrast animals’ adaptations.
- **Chemistry**: The amazing reactions in this module will glow, ooze, change color, and explode!
- **Combustion**: Learn about heat, matter, and the fire triangle. Brace yourself for the flaming vortex and chemical cannon!
- **Electricity**: Your students will have a hair-raising experience as we compare static electricity to high-frequency alternating current.
- **Flight**: Students will learn about the physics of air pressure and the fundamentals of flight. We will launch balloons, helicopters, rockets and more! This module is paired with combustion for a one hour program.
- **Light**: Students will enjoy watching experiments with ultraviolet light, and bending laser beams. The program ends with a high powered musical finale. To be most effective, we must be able to work in a darkened room.
- **Liquid Nitrogen**: Witness a liquid that is 321 degrees below zero! Experience the astonishing results that liquid nitrogen can create. This module is a great companion to the combustion module.
- **Physics**: Your students will be amazed by Newton’s Laws of Motion and how they apply to everyday life. Watch a tablecloth disappear and see the world’s fastest pencil.
- **Sound**: Now hear this! Students will find out how vibrations make sound, see how it moves, and hear a sonic boom!
- **Weird Science**: You won’t believe your eyes as we present the screaming stick, the electric pickle, the flying French fries, and other very surprising demonstrations.

All Children’s Museum field trip and traveling programs are aligned with the Next Generation Science Standards. For more information, call 860.726.4008, or see our website: [www.TheChildrensMuseumCT.org/educators](http://www.TheChildrensMuseumCT.org/educators)
Animal Adaptations & Habitats
Grades K-8: Study some of our Wildlife Sanctuary animals and determine the unique ways they have adapted to meet their specific needs. Compare similarities and differences between mammals, reptiles, amphibians and insects. NGSS: LS1.A/B, LS4.B/C

Featuring Frogs

Animal Life Cycles
Grades 2-8: Learn about the unique life cycles of amphibians and insects and their amazing adaptations that help them to survive. NGSS: LS1.A/B, LS4.B/C

Endangered Species

Connecticut Wildlife
Grades K-8: Get up close and personal with some native Connecticut animals and learn about the human activities that affect them. NGSS: LS1.A/B, LS4.B/C

Cold-Blooded Creatures
Grades K-8: Encounter Reptiles and Amphibians from around the world and discover what it takes to live in their different habitats. NGSS: LS1.A/B, LS4.B/C

Earth’s Biomes
Grades K-8: Some animals thrive in the humid rainforest, others in the dry desert. Examine the adaptations of these animals from such dramatically contrasting habitats. NGSS: LS1.A/B, LS4.B/C

Food Webs

Live Animal Programs can be done in a large assembly setting.

All Children’s Museum field trip and traveling programs are aligned with the Next Generation Science Standards. For more information, call 860.726.4008, or see our website: www.TheChildrensMuseumCT.org/educators
Classroom Programs

Hands-On Classroom Programs

Field Trips OR Traveling Programs

Weather Wonders Grades K-1: Get students excited about paying attention to the weather around them. Learn about the seasons and how they impact our day to day weather. NGSS: ESS2.D

Budding Botanists Grades K-2: Investigate plants from the inside out by dissecting flowers. Learn about their lifecycles and why plants are so important to humans. NGSS: LS2.A

Sound Grades K-3
Using demonstrations and class activities students will explore how sound is made from vibrations and travels as waves. See a wave and explore the effects of its length and amplitude. Students will build musical instruments they get to keep. NGSS: PS4.A

Kids Can Compost K-3:
Emphasizing the Reduce, Reuse, Recycle principles. By designing, building, and maintaining a vermicomposting bin, students will be introduced to a variety of topics, including how nutrients are recycled in an ecosystem, how humans can create less waste, and the biology and habitat requirements of the organisms that make this all possible. NGSS: LS1.A/C

Polymer Power Grades K-6:
Students will conduct slimy experiments to learn about solids, liquids and the strange chains called polymers. NGSS: PS1.A/B, ETS1

Environmental Science Grades K-8:
Study how human activities affect our environment, including air, water, and land. Describe ways to reduce human impact on the environment. NGSS: ESS2.C/E, ESS3.A/C

Water Cycle Grades K-8:
Study how rain, groundwater, and streams can change the shape of the land and identify our effect on the water cycle. Describe how rain can be runoff, standing water, streams, or groundwater and explain how water carries dirt, pollution and other natural and human-derived substances. NGSS: ESS2.A/C, ESS3.A/B/C/D

Paleontology Grades K-8:
Learn how fossils tell us about life in the past. Compare modern and fossil forms to understand the similarities and differences over time as evolution shapes all life. NGSS: LS4.A/B

Can You Dig It? Grade 2:
Examine different types of soil and find out how they are formed. Students will conduct hands-on experiments with dirt. NGSS: ESS2.A

Crime Lab Grades 1-4:
Students become super sleuths as they decode fingerprints and analyze ink composition. They will be challenged to solve a crime using their new skills. NGSS: ETS1

Inventing Grades 1-8:
Student teams use critical thinking skills to invent a new machine. What will your students create? NGSS: ETS1

Landforms and Mapping Grades 2-8:
Study different types of maps and learn how to read them. Describe the shape of the land, how that affects human activities, and identify patterns and major features such as volcanoes, mountains, and rivers. NGSS: ESS2.B, ESS3.C

Simple Machines Grades 2-8:
Students will learn how to identify the six types of simple machines and demonstrate how these machines make work easier every day. NGSS: EST1, PS2

Building Better Bridges Grades 2-8:
Discover shapes and designs that have helped bridges bear heavy loads for centuries. NGSS: EST1, PS2

Rock On Grades 3 & 4:
Learn how igneous, sedimentary and metamorphic rocks form. Examine rocks and minerals for geologic clues. NGSS: ESS2.A

Chem Tech Grades 4-8:
This microchemistry program challenges students to analyze variables and discover the causes of more than 25 surprising chemical experiments. NGSS: PS1.A/B

Electricity and Magnetism Grades 4-8:
Students will tinker with electricity and magnets in stations as well as see some electrifying demonstrations. NGSS: PS1.A
Animal Lessons:
This popular investigation has many options, some of which are listed below, but feel free to call and see if we offer different animals you wish to study. Animal lessons include visitors from the Wildlife Sanctuary.

Learning Strands: unity and diversity of life, living things and their interactions with the environment and each other, observing similarities and differences, adaptations, extinction, life cycles, camouflage

1. Meet the Animals- Learn the differences between a mammal, a reptile, an amphibian and an insect.

2. Furry Friends- They may be furry, but what else makes an animal a mammal?

3. Something Froggy- Hop to it! Learn all about the metamorphosis from tadpoles to frogs.

4. Encountering Dragons- Leaping lizards! Don’t be afraid when you come face to face with living dragons and learn more about reptiles.

5. Turtles, Tortoises and Terrapins- Have a visit from one of the most unique and longest living creatures on earth. They’ve been around since dinosaur times!

6. Insect Investigators
Some are creepy, others are crawly, but all are fascinating as we learn about these 6 legged friends.

Outreach Classroom Pricing & Program Information

Program Length: 45 minutes
Maximum: 15 children per program
Cost: $150
$130 for additional presentation on the same day
Traveling programs incur an added fee based on mileage, additional rates apply for distances greater than 25 miles.

*Please Note: These programs require a carpeted area, 2-3 tables, a sink, and 15 minutes for set up and clean up.

Preschool Series Option: Choose 6 different programs on dates you select to create a unique museum series. These programs can be presented at your site, and an optional “Museum Field trip” can be added to bring your preschoolers in to the museum. Pricing for the 4 program series is a 10% savings off regular pricing. The addition of a field trip would be a $9 per person charge.

Preschool classroom programs serve children ages 3-5 and are aligned with the Connecticut Early and Development Standards (CT ELDS). Featuring cross disciplinary connections, each program has a Literacy/Story component, a Language component with new vocabulary and conversations, and the Science and Social Studies connections listed below.

Preschool Classroom Programs
Traveling OR Museum Classroom Programs

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Color Play:
This class features hands-on science experiments. Explore and experiment with color using a variety of materials. Mix, match and make discoveries. Learning Strands: applying scientific practices, investigating cause and effect, using evidence to make connections

Construction Zone:
Design your own structures and learn about some amazing man-made and creature made structures in our world. Learning Strands: properties of matter; attributes and functions, problem solving, cause and effect, adaptations

We Like to Move It!:
Investigate Energy, Force and Motion. Does it slide, roll or stay put? Use ramps to explore concepts of movement and how movement can be changed. Learning Strands: properties of matter, how speed and direction can be varied, making observations and predictions, experimenting with cause and effect

Astronomy Adventures:
Introducing astronomy to preschoolers, these classes can be added to an in house planetarium program, our Outreach STARLAB Traveling Planetarium, or done independently. Learning strands: Making observations and predictions, investigating cause and effect, change over time, and the use of technology to help us understand the world around us, using evidence to make connections

Moon's Mysteries:
Learn all about the moon, why it seems to change and what we know about this mysterious thing we see in the sky.

From Seed to Plants:
Learn how those tricky seeds can travel and all about the plants around us. Experiment with the different parts of a plant or flower. Learning Strands: unity and diversity of life living things and their interactions with the Environment and each other, observing similarities and differences, life cycles

Starry Safari STARLAB*
A special tour of creature constellations from around the world. Hear the amazing tales people told about how those animals got placed up in the night sky. Bring a constellation to life and meet a live animal from our wildlife sanctuary!

* For STARLAB details, see page 14
Starry Safari
Grades PreK-2: A special tour of creature constellations from around the world. Hear the amazing tales people told about how those animals got placed up in the night sky. Bring a constellation to life and meet a live animal from our wildlife sanctuary! ESS1.A/B, LS1.A

Junior Night Owls
Grades K-2: Introduces young astronomers to the night sky. Learn what causes day and night, and how to form the constellations. Key concepts: apparent movement of the sun across the sky, cause of day and night NGSS: ESS1.A/B

Mighty Moon
Grades 2-6: A deeper look into our Earth’s next door neighbor. Learn about moon phases, eclipses, the moon’s critical role in space exploration, and about the moons orbiting other planets of the solar system. NGSS: ESS1.A/B

Out of this World
Grades 2-6: Travel the Solar System to meet your planetary neighbors as you journey to exotic worlds and strange moons. Key concepts: motion of objects in the solar system, moon phases, causes of night and day, uses of instruments to enhance vision. NGSS: ESS1.A/B

Stories by Starlight
Grades 2-6: The folklore from Greece, Africa, Native American tribes, and other cultures comes alive. Learn how different cultures view the constellations and the science behind them. Key concepts: language arts, use of instruments to enhance vision. NGSS: ESS1.A/B

All Children’s Museum field trip and traveling programs are aligned with the Next Generation Science Standards. For more information, call 860.726.4008, or see our website: www.TheChildrensMuseumCT.org/educators
Immersive Planetarium Classes

The Traveler’s Science Dome at the Gengras Planetarium

The planetarium is appropriate for all ages from preschool through high school and beyond. These programs are held on-site at the Museum. We can accommodate class sizes of 20 to 145. Ask us about combining planetarium shows, topic-related classes, and exhibits for an in-depth day of fun and discovery.

LIVE Night Sky Presentations:

Space Shapes
Grades PreK-K: This friendly introduction to the planetarium environment explores the shapes of things in space. We leave Earth for a close-up view of the Moon and planets. A planetarium educator concludes this program with a tour of the night sky including emphasis on the shapes of space objects.

Clockwork Skies
Grades 1-5: Explore the timely motions of the Sun, Moon and Planets. This class is a live tour of the night sky, with emphasis on repeating sky patterns such as the phases of the moon and constellations of the seasons, as presented by a planetarium educator.

Sizing Up Space
Grades 3-5: This program explores distances and the scale of the solar system. A planetarium educator continues the journey by taking students on a live tour of the universe with emphasis on celestial distances.

Stars of the Season:
Live Sky Tour - Grades 3-8:
In this live tour of the night sky, we see connections between day and night with Earth’s rotation. Seasonal changes in the path of the Sun and seasonal constellations connect with Earth’s revolution about the Sun. We examine the changing phases of the moon and view seasonal constellations and visible planets.

Sun, Earth, Moon:
Grades 4-8:
We observe how Earth’s rotation creates our day and night, how the tilt of the Earth is responsible for the seasons, and how the orbit of the Moon produces its phases. This live program includes stories used by ancient peoples from all over the globe, such as Native American tribes and the ancient Egyptians, to explain these observations. A planetarium educator will answer questions at the end of the program.

Losing the Dark
Grades 4-8: Explore issues regarding light pollution and its environmental effects on humans and animals. Engineers have designed strategies to help us preserve the night sky. Losing the Dark includes a live tour of the constellations and visible planets in the night sky with a planetarium educator.

All Children’s Museum field trip and traveling programs are aligned with the Next Generation Science Standards. For more information, call 860.726.4008, or see our website: www.TheChildrensMuseumCT.org/educators
Call for more details about our complete list of Planetarium programs available covering topics such as:

**SPACE EXPLORATION**
- Secret of the Cardboard Rocket
  Grades PreK-3
- Amazing Stargazing
  Grades 1-4
- Oasis in Space
  Grades 3-8
- Extreme Planets
  Grades 3-8
- Two Small Pieces of Glass:
  The Amazing Telescope
  Grades 3-8

**HUMAN SPACE TRAVEL**
- Larry Cat in Space
  Grades PreK-3
- Astronaut
  Grades 3-8
- From the Blue Planet to the Red Planet - Grades 3-8
- Back to the Moon for Good
  Grades 4-8
- Moon Shadows
  Grades 3-8

**OTHER STEM TOPICS**
- Dancing with the Dinosaurs
  Grades PreK-3
- Lars the Little Polar Bear
  Grades PreK-3
- In My Backyard
  Grades K-3
- Xtreme Weather
  Grades 1-5
- Molecularium
  Grades 2-6
- Flight Adventures
  Grades 3-5
- Cosmic Colors
  Grades 4-8

See Page 5 for NGSS Core Ideas covered during the programs listed above.
Educator Program Guide
2019-2020

Bring a breath of fresh air to your curriculum!

Roaring Brook Nature Center
70 Gracey Road • Canton, CT 06019 • Phone: (860) 693 0263
The Nature Center is located at 70 Gracey Road in Canton, CT and offers programs that take advantage of the beauty that surrounds us in nature.

Nature Center Contact Information
Phone: 860.693.0263
Email: rbnc@thechildrensmuseumct.org
Website: www.roaringbrook.org

Field Trips
Make sure you schedule your field trips early because space fills up quickly!

(All Programs are aligned with Connecticut Science Standards and the Next Generation Science Standards. Key concepts are listed below each program)

Times:
• Programs begin between 9:15am or 9:45am, 11:00am or 1:00pm
• Programs are approximately 1 hour and 15 minutes unless otherwise noted
• Scheduled times may vary slightly for two hour programs or when two consecutive programs are booked

Booking Your Field Trip
To schedule your field trip please contact the Center by calling 860-693-0263 or emailing us at rbnc@thechildrensmuseumct.org. Remember that the Nature Center does not arrange for transportation from your school to the Center.

Arrival and Teacher Check-In
Upon arrival, a teacher should check in at the Gift Shop or Office. It is very important that you arrive on time to the program. Late arrivals will often result in shorter programs. Refunds are not issued for reduced time due to tardiness.

Cost of Field Trips
The Following Rates are Per Student:

$7.00   For 1 hour and 15 minute programs with a $115 Minimum cost
$12.00  For 2 hour programs with a $150 Minimum cost
$15.00  All-Day Programs with a $250 Minimum cost
**Chaperones and Teachers**

- Teachers and School Staff are admitted free of charge
- One Teacher or Chaperone is required for every 15 students
- Additional Chaperones may be accommodated if there is space available but will be charged at an additional $6 per chaperone

> While we enjoy working with children of all ages, we are not equipped for siblings or additional children to accompany your group. Please make alternate arrangements for a family visit to the Center.

**Gift Shop**
The Nature Center Gift Shop will be open for purchases if requested at the time of the field trip registration. Souvenir gift bags may also be ordered in advance! Give us a theme and a cost per bag and we can provide a fun memory of the trip!

**Picnic Facilities**
Facilities are available but reservations should be made in advance. These sites fill up quickly and some are dependent on the weather and time of the year.

**Special Needs**
Please notify the Nature Center if any of your students have special needs. Our building is wheelchair accessible and we have an ADA compliant restroom. We also have assisted listening devices for hearing impaired students. However, many of our trails are not wheelchair accessible.

**Traveling Programs**
No time to join us at the Nature Center? We’ll bring the nature to you through classroom programs, afterschool programs and more! *(All Programs are aligned with Connecticut Science Standards and the Next Generation Science Standards. Key concepts are listed below each program)*

**Booking Your Traveling Program**
To schedule your Traveling Program please contact the Center by calling 860-693-0263 or emailing us at rbnc@thechildrensmuseumct.org.

**Details:**
- Teachers or other adults must stay with students during the program
- Many of our programs require a smart board or a projector, screen and power outlet. Please let us know when booking your program if these items are available.

**Cost of Traveling Programs:**

**Classroom Programs (45 Minute Program with a Limit of 30 Children Per Program)**
- Classroom Programs: $175 plus mileage, $160 per extra program on the same day

**Assembly Programs (1 Hour Program with a Limit of 150 Children Per Program)**
- Assembly Programs: $300 plus mileage, $150 per extra program on the same day

*All traveling programs incur an added fee based on mileage, additional rates apply for distances greater than 25 miles.*
What you’ll find at Roaring Brook Nature Center:

Changing Land/Changing Wildlife Exhibit
- Thicket exhibit
- Beaver Wetland exhibit
- Native American Long House
- Return of the Forest exhibit
- Native Plant Garden

Live Animals
- Birds of Prey
- Connecticut Native Animals
- Non-Native Animals

Miles of Walking Trails & Butterfly Garden
## Roaring Brook Classes

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## NGSS Core Ideas

- **ESS1**: Earth’s Place in the Universe
- **ESS2**: Earth’s Systems
- **ESS3**: Earth & Human Activity
- **PS1**: Matter & Its Interactions
- **PS2**: Motion & Stability
- **PS3**: Energy
- **PS4**: Waves and Their Applications
- **LS1**: From Molecules to Organisms
- **LS2**: Ecosystems: Interactions, Energy & Dynamics
- **LS3**: Heredity: Inheritance and Variation of Traits
- **LS4**: Biological Evolution: Unity and Diversity
Bring a Breath of Fresh Air to your Curriculum

It’s Alive
Grades K – 2
Learn how to distinguish living creatures from the non-living components of their environment. What do living things need in order to survive?
Key concepts: Life cycles, reproduction, growth, energy, properties of living and non-living things, response to stimuli, growth, observing similarities and differences
NGSS: LS1.A/B/C

Our Watery World: Ice, Water, Vapor (Winter Program)
Grades K – 2
Water is the only substance on Earth that is present in all three states of matter; as a solid, liquid or gas. Each state has different observable properties.
Key concepts: states of matter; temperature; solid, liquid, gas; seasonal changes; observation of physical phenomena.
NGSS: ESS2.C, PS1.A/B

All in the Family
Grades K – 2
Learn how animal families are similar and how they are different.
Key concepts: life cycles, metamorphosis, body structure, describing/sorting/classifying organisms
NGSS: LS3.A/B

Insects and their Relatives
(May to October Only)
Grades K – 2
Observe insects close up and see what special adaptations they have developed to help them survive.
Key concepts: insect body parts, metamorphosis, adaptations, habitats, ecosystems, sorting and classification of characteristics

From Seed to Seed
(Fall and Spring Only)
Grades K – 2
Explore how flowering plants change throughout their life cycles in order to survive.
Key concepts: plant structures, life cycles of flowering plants, seed production and distribution
NGSS: LS1.A/C, LS2.A

Animals on the Move
Grades K – 2
All living things move but they all move in different ways. Find out about fins, wings and animal movements!
Key Concepts: Organism, adaptations, energy, structures, motion

It’s Not Just Dirt
Grades K – 2
What is soil and why is it so important to our survival?
Key concepts: Soil quality, food chain, ecosystems, physical properties of soil, Earth materials, soil types, textures, biodiversity, erosion

Changing Seasons
Grades K – 2
How do plants and animals deal with the weather and a changing climate?
• What’s Up With Fall?
• Frozen
• Spring Fling!
Key concepts: making observations, weather, seasons, animal and plant observations.

Home Sweet Home: Habitats
Grades K – 2
Find out how our local wildlife uses natural resources to meet their survival needs.
Key concepts: habitats, adaptation, ecosystems, sorting and classification of characteristics, resources, food web

Who’s For Dinner?
Grades K – 8
Explore the basic concepts of food chains and webs. Learn how energy cycles through Connecticut’s ecosystems.
Key concepts: Food webs and chains, energy flow in ecosystems, recycling, decomposers, herbivores, carnivores, producers, consumers, photosynthesis, stability of system
Nature’s Engineers
Grades K – 8
Animal engineers build structures to help them raise their young, survive the winter, store food, or escape predators. Learn how some animals change their environment and what we can learn from them.
Key concepts: Habitat, structures and behaviors that allow animals to meet basic needs, ecosystem, adaptation, food chains, interdependent relationships
NGSS: ESS2.E, LS2.A

Living With Nature
Grades K – 8
Learn how we share our backyards with wildlife and what we can learn from them.
Key concepts: human impacts, habitat, adaptations, life cycles, interaction, plant and animal observation, observing similarities and differences, biodiversity, natural resources

Animal Super Senses
Grades K – 8
Animals have body parts that capture and convey information needed for their growth and survival. How do animals perceive the world? Discover animals’ super senses and their odd ones, too!
Key concepts: Adaptations, sensory organs, animal structures, senses, information processing, responses to stimuli, structures of body parts, observations, adaptation, electromagnetic spectrum

Native Americans of the Eastern Woodlands
Grades K – 8
Discover how Native Americans relied on their natural environment for all their survival needs including shelter, clothing, and food.
Key concepts: shelter, adaptations, crops, ways humans obtain water and other goods, social studies
NGSS: LS4.D

Connecticut Rocks!
Grades K – 8
Every rock tells a story. Connecticut’s rocks can tell us how Connecticut’s landforms came to be.
Key concepts: geology, earth materials, erosion, catastrophic and gradual change.
NGSS: ESS1.C, ESS2.B/C

Animal & Plant Life Cycles
Grades K – 8
Plants and animals have unique and diverse life cycles. Choose our general life cycle program or a topic from the list below:
• Insects and Their Relatives
• Birds and Butterflies
• Reptiles & Amphibians
• Marvelous Mammals
• From Seed to Seed
Key concepts: structural body parts, metamorphosis, adaptations, habitats, ecosystems, sorting and classification of characteristics, inheritance and variation of traits, interactions with the environment, diversity of life cycles

Adaptations (various programs)
Grades K – 8
Choose our general Adaptations program or a topic from the list below:
• Flowers, Poisons and Thorns
• Predator and Prey
• Claws, Paws & Jaws
• Going, Going, Gone
• Leader of the Pack
• Alien Invaders!
• Species specific programs tailored to your students’ interests (e.g. Reptiles, Birds)
Key concepts: Ecosystems, adaptations, life cycle, structures of living things, extinction, animal survival, fossil, camouflage, natural selection
Family Matters
Grades 3 – 8
Genetics, natural selection, and environment influence plant and animal survival. Selective breeding also can change species traits.
Key concepts: inheritance of traits, variation in traits, natural selection

The Amazing Soil Food Web
Grades 3 – 8
Learn how energy cycles through soils and, in turn, through other ecosystems.
Key concepts: Food webs and chains, energy flow in ecosystems, recycling, decomposers, herbivores, carnivores, producers, consumers, interdependent relationships in ecosystems

Soil: Earth’s Thinnest Crust
Grades 3 – 8
Soil is the connection between the Earth’s geology and its biology. More than sediment, soil is an ecosystem as complex as a forest, savanna, or jungle. Learn how soil is formed and why it is so important to our own survival.
Key concepts: Soil quality, food chain, ecosystems, physical properties of soil, Earth materials, soil types, textures, biodiversity

Changing Land, Changing Wildlife
Grades 3 – 8
As Connecticut’s ecosystems have changed over time, the state’s wildlife has also changed. Observe, first-hand, how natural phenomena and human activities have impacted animal populations. Tour our Changing Land, Changing Wildlife Exhibits.
Key concepts: Ecosystems, how natural and human activity changes habitats and inhabitants, adaptations, extinction, resources needed by organisms, conservation of resources, biogeology

Bedrock to Stone Walls
(2 hour program - Spring and Fall only) Grades 3 – 8
Geology, ecology, and human history have combined to create the landscape we see today. This program combines aspects of “Connecticut Rocks” and “Changing Land, Changing Wildlife.”
Key concepts: Ecosystems, properties and classification of earth materials, rocks and minerals, conservation of resources, effects of human activities on habitats
NGSS: ESS2.A/C/E

Water Life Both Big and Small
(Available as a 2 hour program)
Grades 3 – 8
Use a variety of tools, including microscopes and hand lenses to discover micro and macro organisms found in local streams and ponds. Discover their adaptations and what makes CT’s aquatic habitats special.
Key concepts: Adaptation, ecosystems, food chain, erosion, aquatic environment, stream formation

Keeping Water Clean
Grades 3 – 8
Human activities in agriculture, industry, and everyday life have had major effects on our water resources. Today, individuals and communities are doing things to help protect Earth’s resources and environments. This program uses Enviroscape models demonstrate how to prevent pollution.
Key concepts: why water is essential for life, point and non-point water pollutants, watersheds, how substances dissolve in ground water, natural resources, conservation of resources
NGSS: ESS3.C
Our Watery World: Earth’s Water Cycle Grades 3 – 8
Examine the hydrologic cycle and learn how water shapes our land, modifies climate, and affects ecosystems.
Key concepts: water cycle, properties of liquids, surface and ground water, erosion, physical and chemical properties of water, river formation

Gravity, Electromagnetism and Nature Grades 5 – 8
Learn how plants and animals use light, magnetic fields, and electricity to navigate their world and to survive. This program offers real life examples of physical sciences.
Key concepts: electromagnetic spectrum, gravity, wavelength, magnetic fields, energy

Insect Chemists Grades 5 – 8
A class where chemistry, physical sciences and the world of insects collide! Get your students excited about ultraviolet colors, chemical reactions, and magnetic fields while exploring the insect world.
Key concepts: Light, sound, vibrations, thermal energy, magnetic fields, Structure and function, chemical ecology
NGSS: PS3.A, LS1.A

Survival Skills Grades 5 – 8
(2 hour program – Skills learned are based on season)
Learn basic survival skills including reading a map and compass, fire building, shelter construction, appropriate clothing, and food. Dress for the weather!
Key concepts: Adaptation, conflict with nature, weather, natural hazards

Don’t See What You’re Looking For? We Can Customize Our Programs to Fit Your Needs!

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Classroom Programs (Traveling)

It’s time to bring a breath of fresh air to your classroom
45 minutes with a maximum of 30 children per program
Cost: $175 plus mileage, $160 for each additional program on the same day.

It’s Not Just Dirt
Grades K – 2
What is soil and why is it so important to our survival?

Home Sweet Home: Habitats
Grades K – 2
Find out how local wildlife uses natural resources to meet survival needs.
Key concepts: habitats, adaptation, ecosystems, sorting and classification of characteristics, resources, food web

Animals on the Move
Grades K – 2
All living things move but they all move in different ways. Find out about fins, wings and animal movements!
Key Concepts: Organism, adaptations, energy, structures, motion

From Seed to Seed
(Fall and Spring Only)
Grades K – 2
Explore how flowering plants change throughout their life cycles in order to survive.
Key concepts: plant structures, life cycles of flowering plants, seed production and distribution
NGSS: LS1.A/C, LS2.A

Survival: Plants & Animals
Grades K – 8
How do plants and animals survive in various habitats?
Key concepts: Behavioral and structural adaptations, advantage, survival, camouflage, energy transfer
NGSS: LS4.B/C

Animal & Plant Life Cycles
(Various programs)
Grades K – 8
Plants and animals have unique and diverse life cycles. Choose our general life cycle program or a topic from the list below:
• Insects and Their Relatives
• Birds and Butterflies
• Reptiles & Amphibians
• Marvelous Mammals
• From Seed to Seed
Key concepts: structural body parts, metamorphosis, adaptations, habitats, ecosystems, sorting and classification of characteristics, inheritance and variation of traits, interactions with the environment, diversity of life cycles

Frogs & Friends
Grades K – 8
From egg to tadpole to frog. What can these amphibians tell us about the health of our environment?
Key concepts: life cycles, metamorphosis, adaptations, describing similarities and differences of adults and offspring

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Nature’s Engineers
Grades K – 8
Animal engineers build structures to help
them raise their young, survive the winter,
store food, or escape predators. Learn how
some animals change their environment and
what we can learn from them.
Key concepts: Habitat, structures and behaviors
that allow animals to meet basic needs, ecosystem,
adaptation, food chains, interdependent relationships
NGSS: ESS2.E, LS2.A

Native Americans of the Eastern
Woodlands
Grades K – 8
Discover how Native Americans in the past
relied on their natural environment for their
survival needs including shelter, clothing, and
food.
Key concepts: shelter, adaptations, crops, ways humans
obtain water and other goods, social studies
NGSS: LS4.D

Connecticut Rocks!
Grades K – 8
Every rock tells a story. Connecticut’s rocks
can tell us how Connecticut’s landforms
came to be.
Key concepts: geology, earth materials, erosion,
catastrophic and gradual change.
NGSS: ESS1.C, ESS2.B/C

Food Chains and Webs
Grades K – 8
Explore interrelationships of all living things.
Key concepts: Food webs and chains, energy flow
in ecosystems, recycling, decomposers, herbivores,
carnivores, producers, consumers, photosynthesis

Adaptations (various programs)
Grades K - 8
Choose our general Adaptations program or
a topic from the list below:
• Flowers, Poisons and Thorns
• Predator and Prey
• Claws, Paws & Jaws
• Going, Going, Gone
• Leader of the Pack
• Alien Invaders!
• Species specific programs tailored to your
  students' interests (e.g. Reptiles, Birds)
Key concepts: Ecosystems, adaptations, life cycle,
structures of living things, extinction, animal survival,
fossil, camouflage, natural selection

Animals Super Senses
Grades K – 8
Discover the world of animal senses!
How do they capture and convey
information needed for growth
and survival?
Key concepts: Adaptations, sensory organs, animal
structures, sense, information processing

The Amazing Soil Food Web
Grades 3 -8
Soil is the connection between the Earth’s
geology and its biology. Learn how energy
cycles through soils and, in turn, through
ecosystems.
Key concepts: Food webs and chains, energy flow
in ecosystems, recycling, decomposers, herbivores,
carnivores, producers, consumers, interdependent
relationships in ecosystems

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Frameworks and the Next Generation Science Standards. For more information, call 860.693-0263, or see
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Soil: Earth’s Thinnest Crust
Grades 3 – 8
More than sediment, soil is an ecosystem as complex as forest, savanna or jungle. Learn how soil is formed and why it is so important to our own survival.
Key concepts: Soil quality, food chain, ecosystems, physical properties of soil, Earth materials, soil types, textures, biodiversity

Changing Land, Changing Wildlife
Grades 3 – 8
As Connecticut’s ecosystems have changed over time, so has the state’s wildlife. Learn how natural phenomena and human activities have impacted animal populations.
Key concepts: Ecosystems, how natural and human activity changes habitats and inhabitants, adaptations, extinction, resources needed by organisms, conservation of resources, biogeology

The Secret World of Plants
Grades 3 – 8
Plants are not defenseless. Learn the clever strategies that plants use to win, or sometimes lose, in the battle for survival.
Key concepts: Structure of living things, adaptations, life cycles of flowering plants, seed production and distribution
NGSS: LS1.A, LS2.A

Our Watery World: Earth’s Water Cycle
Grades 3 – 8
Examine the hydrologic cycle and learn how water shapes our land, modifies climate, and affects ecosystems.
Key concepts: water cycle, properties of liquids, surface and ground water, erosion, physical and chemical properties of water, river formation

Invisible World
Grades 3 – 8
Open your eyes to a world of life too small to be seen without the help of a microscope.
Key concepts: use of optical instruments to enhance vision, use of eye glasses/magnifiers/microscopes
NGSS: LS1.A

Gravity, Electromagnetism and Nature
Grades 5 – 8
Learn how plants and animals use light, magnetic fields, and electricity to navigate their world and to survive. This program offers real life examples of physical sciences.
Key concepts: electromagnetic spectrum, gravity, wavelength, magnetic fields, energy

Insect Scientists
Grades 5 – 8
A class where chemistry, physical sciences and the world of insects collide! Get your students excited about ultraviolet colors, chemical reactions and magnetic fields through exploring the insect world.
Key concepts: Light, sound, vibrations, thermal energy, magnetic fields, Structure and function
NGSS: LS1.A, PS3.A

Keeping Water Clean
Grades 3 – 8
Human activities in agriculture, industry, and everyday life have had major effects on our water resources. Today, individuals and communities are doing things to help protect Earth’s resources and environments. This program uses Enviroscape models demonstrate how to prevent pollution.
Key concepts: why water is essential for life, point and non-point water pollutants, watersheds, how substances dissolve in ground water, natural resources, conservation of resources
NGSS: ESS3.C

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Animal & Plant Life Cycles
(Various programs)
Grades K – 8
Plants and animals have unique and diverse life cycles. Choose our general life cycle program or a more specific topic from the list below:

- Insects and Their Relatives
- Birds and Butterflies
- Reptiles & Amphibians
- Marvelous Mammals
- From Seed to Seed

Key concepts: structural body parts, metamorphosis, adaptations, habitats, ecosystems, sorting and classification of characteristics, inheritance and variation of traits, interactions with the environment, diversity of life cycles

Snakes Alive!
Grades K – 8
Separate fact from fiction and learn to appreciate these fascinating creatures.
Key concepts: ecosystem adaptations, camouflage, hibernation, migration, structures of living things, extinction, interdependence, food chains

Endangered Species
Grades 3 – 8
What is an endangered species? Do they live in Connecticut? Why are they endangered?
Key concepts: ecosystem adaptations, camouflage, hibernation, migration, structures of living things, extinction, interdependence, food chains, animal survival

Adaptations (Various programs)
Grades K - 8
Choose our general Adaptations program or a more specific topic from the list below:

- Flowers, Poisons and Thorns
- Predator and Prey
- Claws, Paws & Jaws
- Going, Going, Gone
- Leader of the Pack
- Alien Invaders!
- Species specific programs tailored to your students’ interests (e.g. Reptiles, Birds)

Key concepts: Ecosystems, adaptations, life cycle, structures of living things, extinction, animal survival, fossil, camouflage, natural selection

CT Wildlife Digest
Grades 3 – 8
Learn about the diversity of wildlife in our small state and how human activity can impact that diversity.
Key concepts: ecosystem adaptations, camouflage, hibernation, migration, structures of living things, extinction, interdependence, food chains, animal survival

Changing Land, Changing Wildlife
Grades 3 – 8
As Connecticut’s ecosystems have changed over time, so have the state’s wildlife. Learn how natural phenomena and human activities have impacted animal populations.
Key concepts: Ecosystems, how natural and human activity changes habitats and inhabitants, adaptations, extinction, resources needed by organisms, conservation of resources, biogeology

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Preschool Classroom Programs

(geared for 3 – 5 year olds)

traveling or field trip

classroom programs

nurturing young minds with nature
45 minutes with a maximum of 15 children per program

cost: $150 (plus mileage traveling), $130 for each additional program on the same day.

it’s alive
examine differences between living things and non-living things through hands-on discovery and observation of live plants and animals.

all in the family
through an interactive show with live animals, learn how animal families are similar and how they differ.

from seed to seed
what is a stem, branch, root? what is a seed and what goes on inside it?

it’s not just dirt
what is soil and why is it so important to our survival?

our watery world
water is amazing! learn about all the fascinating forms it comes in.

animals on the move
living things move in many different ways. find out about fins, wings, and animal movements!

little sprouts - changing seasons
(seasonal programs)

how do plants and animals deal with the changing seasons?
• fall surprises
• frozen world
• spring fling

sign up for an individual seasonal program or for all three!

traveling
45 minute program with 15 students max. per program
$150 program plus mileage
$130 for each additional seasonal program plus mileage

field trip
1 hour program with 15 students max. per(rbnc instructor
$6 per student with a minimum $115 for the program

all roaring brook field trip and traveling programs are aligned with both the connecticut state science frameworks and the next generation science standards. for more information, call 860.693-0263, or see our website: www.roaringbrook.org