

Environmental Education Programs



Brandywine
Red Clay Alliance

2024



PROGRAMS ARE ALIGNED WITH
PENNSYLVANIA AND DELAWARE CORE,
NEXT GENERATION SCIENCE &
NATIONAL STEM STANDARDS

www.brandywineredclay.org
610-793-1090



Brandywine Red Clay Alliance (BRC) is your local leader in environmental education and watershed conservation. Our work began in 1945, when a handful of concerned citizens realized poorly treated wastewater and soil erosion posed serious threats to our creeks and water supplies.

We've made tremendous strides throughout the decades since, however there is still much work to do in the Brandywine and Red Clay Watersheds.

BRC's mission is to promote the restoration, conservation and enjoyment of the natural resources of the Brandywine and Red Clay Watersheds through education, scientific activities, environmental stewardship and advocacy.



**Participate in one of
our standards aligned
programs today!**

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About Our Programming

At BRC You Will:

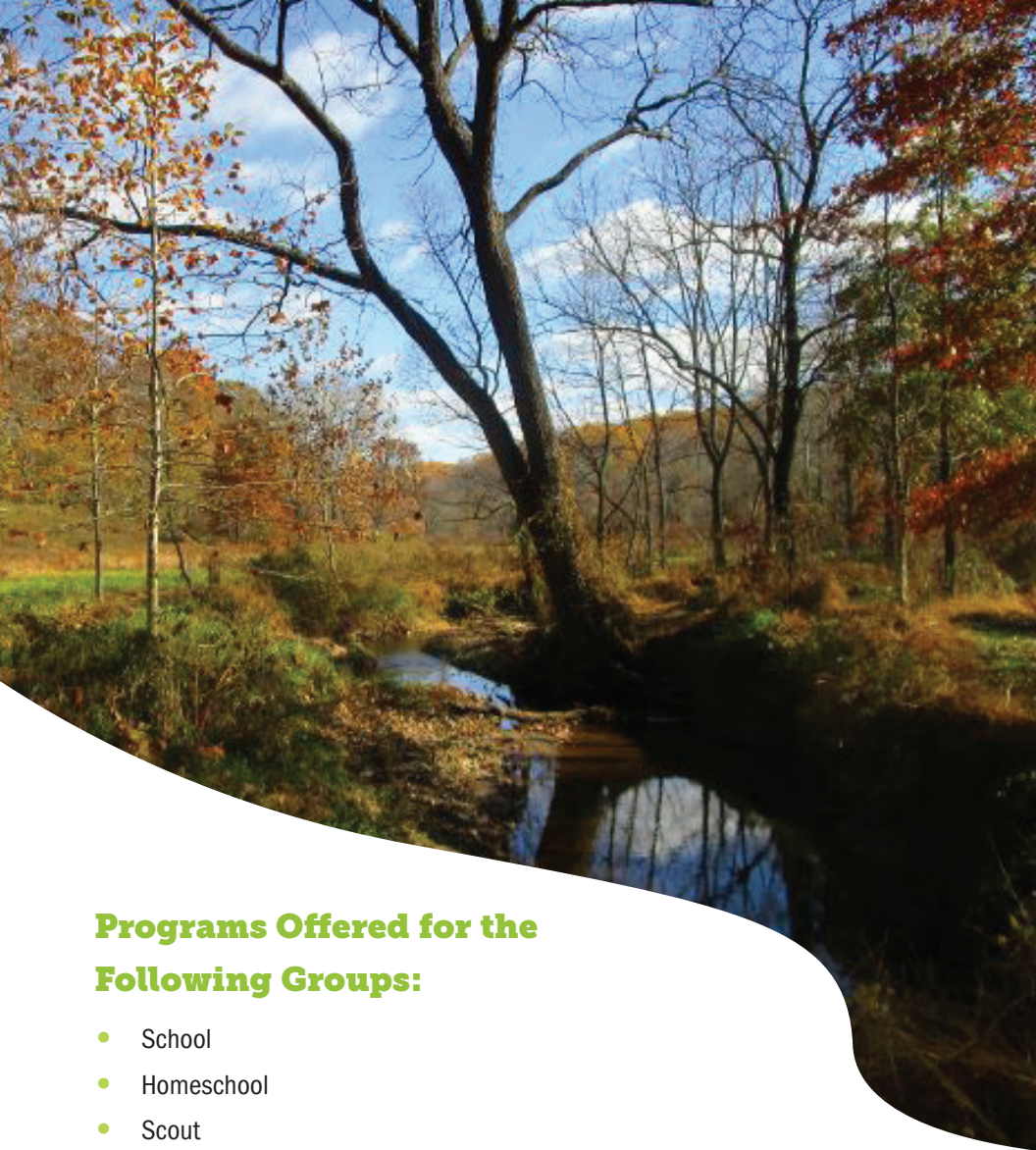
- GO WILD! Wonder, Investigate, Learn & Discover
- Experience hands-on, inquiry-based & developmentally appropriate programs
- Find low student to instructor ratios
- Discover our wide range of low-cost programs
- Benefit from scholarship funding available to qualifying participants – ask us!

What's New In 2024:

- We have included 2 new sections in this brochure...Early Childhood and Public programs
 - Early Childhood programs highlight our offerings for pre-school and early childhood learners
 - Our scout programs were moved under Public programs, plus we have added a new set of enrichment programs available to the general public
- We are putting the finishing touches on our 2 new STEM programs that address changes to the PA science standards:
 - What's An Environmentalist To Do? (grades 3 – 5)
 - The Environmental Experience (grades 6 – 8)
- We have developed a new Ecosystem Exploration offering for grades 3 – 5 covering forests.
- We are now offering stream studies at our Chandler Mill location...take advantage of the convergence of the Bucktoe and Red Clay creeks. Due to smaller property size the number of students is limited to 50 per day for a 2 hour program.
- We have updated our New Leaf Sensory Garden and now have a lesson plan specifically for Early Childhood at this site. See our new early childhood section.

BRC's Educational Goals:

- Communicating the significance of the natural connections between people, place and various elements that interact to create the communities in which we live.
- Instilling environmental stewardship and a curiosity for life-long learning.
- Meeting individual learning needs of participant(s).



Programs Offered for the Following Groups:

- School
- Homeschool
- Scout
- Youth
- Community

*Don't see a program that
meets your group's needs?*

**Let us create a
customized one for you!**

BRC Programs At-A-Glance

NAME OF PROGRAM	GRADE	LENGTH	SEASON(S)	LOCATIONS OFFERED
A Bug's Life	K - 2	1.5 hrs.	Fall, Spring, Summer	C, M, S, O
A Bug's Life (DE Outreach)	K - 2	1.5 hrs.	Fall, Spring	O (DE Outreach)
Adventure Team	4 - 5	1.5 - 2 hrs.	Fall, Spring, Summer	M
All About Owls	3 - 5	1.5 - 2 hrs. 1 hr. for virtual	All Seasons	C, M, S, O, V
Amazing Adaptations	3 - 5	1.5 - 2 hrs.	Fall, Spring, Summer	C, M, S, O
Amazing Adaptations (DE Outreach)	3 - 5	1.5 hrs.	Fall, Spring	(DE Outreach)
At Home in Your Habitat	Pre-K - 2	1.25 - 1.5 hrs.	Fall, Spring, Summer	C, M, S, O
At Home In Your Habitat (DE Outreach)	K - 2	1.5 hrs.	Fall, Spring	O (DE Outreach)
Avian Adventures	1 - 3	45 min. - 1 hr.	All Seasons	V
Canoeing Water Quality	7 - 12	4 hrs.	Fall, Spring, Summer	Brandywine Creek
Diggin' Dirt (DE Outreach)	2	1.5 hrs.	Fall, Spring	O (DE Outreach)
Ecosystem Explorations - Forest	3 - 5	1.5 -2 hrs	Fall, Spring, Summer	M
Ecosystem Explorations - Pond	3 - 5	1.5 - 2 hrs.	Fall, Spring, Summer	M, O
Ecosystem Explorations - Stream	3 - 5	1.5 -2 hrs	Fall, Spring, Summer	C, M, S, O
Findings of Fall	Pre-K - 2	1.5 hrs.	Fall	C, M, S, O
Findings Of Fall (DE Outreach)	K	1.25 hrs.	Fall	O (DE Outreach)
Geology (DE Outreach)	6	3 hrs. / 3 days	Fall, Spring	O (DE Outreach)
Geology and Landforms	3 - 5	1.5 hrs.	Fall, Spring, Summer	M
GO WILD: My Senses Outside	Pre-K - 2	1.5 hrs.	Fall, Spring, Summer	N
Incredible Insects	1 - 3	45 min - 1 hr.	All Seasons	V
Inspecting Insects	3 - 5	1.5 hrs.	Fall, Spring, Summer	C, M, S, O
Lenape - Indoor (DE Outreach)	4	1.5 hrs.	Winter	O (DE Outreach)
Lenape Life	3 - 5	1.25 hr.	All Season	V
Lenape Lore - Half Day	6 - 8	2 hrs.	Fall, Spring, Summer	M
Lenape Lore - Full Day	6 - 8	4 hrs.	Fall, Spring, Summer	M
Like the Lenape - Half Day	2 - 5	1.5 hrs.	Fall, Spring, Summer	M, O
Like the Lenape - Full Day	3 - 5	3 hrs.	Fall, Spring, Summer	M
Molecules Matter (DE Outreach)	2 - 3	1.5 hrs.	Fall, Spring	O (DE Outreach)
Native Wildlife Habitats	K - 2	1 hr.	All Seasons	V
Orienteering	6 - 8	2 hrs.	Fall, Spring, Summer	M
Orienteering (DE Outreach)	2 - 4	1.5 hrs.	Fall, Spring	O (DE Outreach)
Pebbles, Sand and Soil	1 - 3	1.25 - 1.5 hrs.	Fall, Spring, Summer	C, M, S, O
Pond Sense	K - 2	1.5 hrs.	Fall, Spring, Summer	M, O
Pond Study	6 - 12	2 hrs.	Fall, Spring, Summer	M, O

Red Streams Blue Tour	9 - 12	TBD	Fall, Spring, Summer	TBD
Signs of Spring	Pre-K - 2	1.25 hrs.	Spring	C, M, S, O
Signs Of Spring (DE Outreach)	K	1.25 hrs.	Spring	O (DE Outreach)
Skulls, Skeletons, Teeth & Feet (DE Outreach)	3	1.5 hrs.	Fall, Winter, Spring	O (DE Outreach)
Solids, Liquids & Gas (DE Outreach)	1 - 2	1.5 hrs.	Fall, Spring	O (DE Outreach)
Stream Sense	K - 2	1.5 hrs.	Fall, Spring, Summer	C, M, S, O
Stream Study	6 - 12	2 hrs.	Fall, Spring, Summer	C, M, S, O
Survive Alive	6 - 8	2 - 4 hrs.	Fall, Spring, Summer	M
Team Challenge	6 - 12	2 hrs.	Fall, Spring, Summer	M
The Environmental Experience	6 - 8	2 hrs.	Fall, Spring	M
Trees Are Tops	K - 2	1.5 hrs.	Fall	C, M, S, O
Trees Are Tops (DE Outreach)	K	1.25 hrs.	Fall, Spring	O (DE Outreach)
Watershed Program (customized)	4 - 5	TBD	Fall, Spring, Summer	M, O
Watershed Study (customized)	6 - 8	TBD	Fall, Spring, Summer	M, O
Watersheds & Wetlands	3 - 5	1 hr.	All Seasons	V
What's An Environmentalist To Do	3 - 5	1.5 hrs.	Fall, Spring	M
What's in a Wetland?	3 - 5	1.5 hrs.	Fall, Spring, Summer	C, M
Wild About Weather	K - 2	1.5 hrs.	Fall, Spring, Summer	C, M, S, O
Wild About Weather (DE Outreach)	K - 1	1.5 hrs.	Fall, Spring	O (DE Outreach)
Wonders of Water	1 - 3	1.5 hrs.	Fall, Spring, Summer	M
Working Watershed	3 - 5	1.5 hrs.	Fall, Spring, Summer	M

PROGRAM LOCATIONS

- C Chandler Mill Nature Preserve:** 541 Chandler Mill Road, Avondale, PA 19311
- M Myrick Conservation Center:** 1760 Unionville-Wawaset Road, West Chester, PA 19382
- N New Leaf Sensory Garden:** 776 Rosedale Road, Kennett Square 19348
- S Saalbach Farm:** 233 South Bonsall Road, Coatesville, PA 19320
- O Outreach:** Some programs can be modified and offered at other locations such as schools and parks. Program lengths may vary depending on site. Programs marked with **"DE Outreach"** are available to schools located in Delaware.
- V Virtual:** Some programs were created to be offered virtually while retaining the in-person experience and interaction.

Academic Standards

Located within program descriptions

Delaware

Next Generation Science Standards

PS: Physical Science

- PS1: Matter and Its Interactions
- PS2: Motion and Stability: Forces and Interactions
- PS3: Energy
- PS4: Waves and Their Applications in Technologies for Information Transfer

LS: Life Sciences

- LS1: From Molecules to Organisms
- LS2: Ecosystems: Interactions, Energy, and Dynamics
- LS3: Heredity: Inheritance and Variation of Traits
- LS4: Biological Evolution: Unity and Diversity

ESS: Earth Space Sciences

- ESS1: Earth's Place in the Universe
- ESS2: Earth's Systems
- ESS3: Earth and Human Activity

ETS: Engineering, Technology, and Applications of Science

- ETS1: Engineering Design

Social Studies Standards - Geography

- G1: Students will develop a personal geographic framework, or “mental map,” and understand the uses of maps and other geographics [Maps].
- G2: Students will develop a knowledge of the ways humans modify and respond to the natural environment [Environment].
- G3: Students will develop an understanding of the diversity of human culture and the unique nature of places [Places].
- G4: Students will develop an understanding of the character and use of regions and the connections between and among them [Regions].

Social Studies Standards - History

- H1: Students will employ chronological concepts in analyzing historical phenomena [Chronology].
- H2: Students will gather, examine, and analyze historical data [Analysis].
- H3: Students will interpret historical data [Interpretation].
- H4: Students will develop historical knowledge of major events and phenomena in world, United States, and Delaware history [Content].

Pennsylvania

Core Standards for English Language Arts

- 1.1 Foundational Skills (Pre K-5)
- 1.2 Reading Informational Text
- 1.3 Reading Literature
- 1.4 Writing
- 1.5 Speaking and Listening

Core Standards for Mathematics

- 2.1 Numbers and Operations
- 2.2 Algebraic Concepts
- 2.3 Geometry
- 2.4 Measurement, Data and Probability

Elementary/Secondary Standards for Science, Technology and Engineering, and Environmental Literacy and Sustainability

- 3.1 Life Science
- 3.2 Physical Science
- 3.3 Earth and Space Science
- 3.4 Environmental Literacy and Sustainability
- 3.5 Technology and Engineering

Elementary/Secondary Standards for Environment & Ecology

- 4.1 Ecology
- 4.2 Watersheds and Wetlands
- 4.3 Natural Resources
- 4.4 Agriculture and Society
- 4.5 Humans and the Environment

Elementary Standards for Geography

- 7.1 Basic Geographic Literacy
- 7.2 Physical Characteristics of Places and Regions
- 7.3 Human Characteristics of People and Places
- 7.4 Interactions Between People and the Environment

Elementary Standards for History

- 8.1 Historical Analysis and Skills Development
- 8.2 Pennsylvania History
- 8.3 United States History
- 8.4 World History

Schedule A BRC Experience

Three Ways To Schedule A Program:

SCAN TO
SCHEDULE!



- 1 Call:** 610-793-1090 and ask for the Education Staff
- 2 Email:** Alexa Hart - ahart@brandywineredclay.org
- 3 Website:** www.brandywineredclay.org/environmental-education-programs/

Please include the following information:

- Preferred location
- Program choice(s)
- Preferred date(s) (*at least 3 choices*)
- Preferred start time(s)
- Number of students and adults/chaperones
- Any specific requests or participants with special needs
- Cost restrictions? Ask about our scholarship funding.

Outdoor Classroom Site Options:

C Chandler Mill Nature Preserve – located in Avondale, PA. 44 acres of field and stream including the confluence of the Red Clay and Bucktoe Creeks.

M Myrick Conservation Center – site of BRC's offices, 318 ecologically-diverse acres located on Route 842, 6 miles west of West Chester and 3 miles east of Unionville.

N New Leaf Sensory Garden -located in Kennett Square, PA. 11+ acres of meadow and wetland with a meandering stream. Also, home to our .5 mile bilingual (Spanish) story book trail.

S Saalbach Farm – located just outside of Coatesville, PA between Route 30 and Kings Highway in West Caln Township. 225 acres of field, forest and stream.

O Your School or Nearby Natural Area – Does your school property include a garden, wetland, forest, stream or pond? Maybe it is within walking distance to a nearby park. For a small outreach fee, we'll come to you!

V Virtual – With the aid of technology, we bring our outdoor classroom to you.

Payment Policies/Fees:

- Minimum charge per program is for 12 participants.
- Minimum charge for virtual programs is \$100.
- There is a one-time \$100 fee for all outreach programs.
- Payment is due at least two weeks prior to the scheduled program date.
- Cost is determined by number of students quoted when program(s) is/are scheduled.
 - If student number needs to be changed, it must be done with enough notice to send payment in time.
- No refunds will be issued on day of program(s) if students are absent.
- **Your school may qualify for financial assistance through one of our education grants. Inquire when scheduling.**

Cancellation Policy:

- Programs run rain or shine. Please plan accordingly.
- If inclement weather or conditions demand the cancellation of a program, BRC will attempt to find an alternate date or refund the entire program fee.

Preparation:

- In order to meet program goals, we depend on you to prepare your students and chaperones for the outdoor, hands-on activities. This information for students and chaperones is included with the emailed confirmation sheet(s) upon scheduling your program.
- **Help to build environmental stewards by reducing waste!** Encourage students and chaperones to bring reusable lunch boxes, containers and water bottles!

Program Details:

- Group sizes are about 12 students.
- BRC requires at least 1 but allows up to 2 non-aide chaperones per group.
- Chaperones can be teachers, other school staff or parents.
- One-on-one aides will not be considered as a chaperone.
- Program lengths may be modified to meet your needs.
- **Plan to arrive at least 15 minutes prior to program start time to ensure program starts on time.**
- **Please allow for a 30-45 minute lunch break between morning and afternoon programs if scheduling two for the day.**

Tips For A Successful Day:

- Notify BRC of any students with special needs.
- Remind students to dress appropriately for the weather. This includes wearing old sneakers or boots. Long pants can help protect against poison ivy and brambles.
- Remind students programs run rain or shine and to bring rain gear with them if necessary.
- Students may carry a water bottle during the program.
- Students have any medication they require.
- No cellphones or devices permitted during the program unless specified.
- Students have been reminded to be respectful of the Environmental Instructors and BRC property:
 - They need to be good listeners and follow directions
 - They are not allowed to pick or collect anything
 - Littering is not permitted

Community Programs

BOOKS & BOOTS

Ages 2 - 7; \$6.50 (Members) / \$13.00 (Non-Members) Per Session

Books come to life at the Myrick Conservation Center and continue with an outdoor adventure and craft. Registration is required 48 hours prior to program and a minimum of 6 participants.



NATURE PLAY

Ages 2 - 7; \$6.50 (Members) / \$13.00 (Non-Members) Per Session

Join us on the last Tuesday of every month (September - May, excluding December) at 10:00 a.m. to go WILD at our Nature Play program at the Chandler Mill Nature Preserve. Wonder, Investigate, Learn and Discover guided weekly themes at your own pace. Registration is required 48 hours prior to program and a minimum of 6 participants.



SCAN OUR QR CODE TO REGISTER FOR BOOKS & BOOTS
AND NATURE PLAY ON OUR EVENTS PAGE

School/Homeschool Programs

GO WILD – MY SENSES OUTSIDE

Grades 3-5; 1.5 hours; \$7.00/participant

Location(s): **N**

Learn what the five senses are and go WILD...wonder, investigate, learn and discover in our sensory garden. See the world through your five senses...sight, taste, smell, touch and hear.

Standards:

PreK – CC 2.1PreK/2.3PreK/2.4PreK/3.1PreK/3.2PreK/3.3PreK/4.2PreK/7.1PreK

Kindergarten– CC 2.1.K/2.3.K/2.4.K/3.2.K/3.3.K

1st Grade – CC 2.3.1/3.3.1

2022 STEELS – 3.5.K-2.Q, 3.5.K-2.S, 3.5.K-2.AA



A BUG'S LIFE

Grades K-2; 1.5 hours; \$7.00/participant

Location(s): C, M, S, O

See the world through a bug's eyes as you set off to discover the many amazing insects that call the Myrick Conservation Center their home! Play games to learn about their body parts, life cycles and buggy behavior. Get an up-close view exploring these fascinating creatures in their habitat and discover their importance in the natural world.

Standards:

Kindergarten - CC.1.5.K/3.1.K/4.1.K/4.5.K/K-LS1-1/K-ESS2-2/K-ESS3-3

1st Grade - CC.1.5.1/3.1.1/4.4.1/4.5.1/1-LS3-1

2nd Grade - CC1.5.2/3.1.2/4.4.2/2-LS4-1

ADVENTURE TEAM

Grades 4-5; 1.5 hours; \$7.00/participant

2 hours; \$8.00/participant

Location(s): M

What makes a team? Join in a variety of activities to learn about what behaviors and actions lead to successful team building. These experiences encourage constructive speaking and listening skills and recognition of personal responsibility when working in a group setting. A great program to cultivate teamwork!

Standards:

4th Grade - CC1.5.4/3.4.4

5th Grade - CC1.5.5/3.4.5/3-5-ETS1-2





ALL ABOUT OWLS

Grades 3-5; 1.5 hours; \$7.00/participant

2 hours; \$9.50/participant with owl pellet dissection (1 pellet per student pair included)

Location(s): **C**, **M**, **S**, **O**

What makes an owl a great nocturnal predator? Can an owl really turn its head all the way around its body? Learn about the fascinating lives of owls through an exploration of their amazing adaptations. Get a close look at a taxidermy mount of an owl that lives in Southeastern Pennsylvania before going on a habitat hike.

Standards:

3rd Grade - [CC1.5.3/3.1.3/3-LS3-1/3-LS3-2/3-LS4-2](#)

4th Grade - [CC1.5.4/3.1.4/4.1.4/4-LS1-1/4-LS1-2](#)

5th Grade - [CC1.5.5/3.1.5/5-LS2-1/5-PS3-1](#)

ALL ABOUT OWLS - VIRTUAL

Grades 3-5; 1 hour; \$3.50/participant, minimum \$100

Location(s): **V**

Owls are amazing animals with a variety of adaptations to help them survive and thrive in a nocturnal world. Owl's adaptations are so great that owls can be found on all seven continents. This program focuses on owls we have seen or heard at the the Myrick Conservation Center.

Standards:

3rd Grade - [CC1.5.3/3-LS3.A/3-LS3.BB/3-LS4.C](#)

4th Grade - [CC1.5.4/3.1.4/4.1.4](#)

5th Grade - [CC1.5.5/3.1.5](#)

AMAZING ADAPTATIONS

Grades 3-5; 1.5 hours; \$7.00/participant

2 hours; \$7.50/participant (with Tooli Bird activity)

Location(s): C, M, S, O

Observe a variety of structural and behavioral adaptations of plants and animals. Play games and go on a hike to see examples of how plants and animals have adapted in order to survive. "Toolii Birds," a game that models the adaptations of bird beaks, can be included upon request.

Standards:

3rd Grade - CC.1.5.3/3.1.3/4.1.3/3-LS2-1/3-LS3-1/3-LS3-2/3-LS4-2/3-LS4-3/3-LS4-4

4th Grade - CC.1.5.4/3.1.4/4.1.4/4-LS1-1/4-LS1-2

5th Grade - CC.1.5.5/3.1.5/5-LS1-1/5-LS2-1



AT HOME IN YOUR HABITAT

Grades Pre-K-2; 1.5 hours; \$7.00/participant

Location(s): C, M, S, O

Search for signs of wildlife while learning about what animals need in their habitat to survive. Discover a variety of animal homes while learning how specific habitats provide food, water, shelter and space.

Standards:

Pre-K - CC.1.5.PK/3.1.PK/4.1.PK/4.4.PK/4.5.PK

Kindergarten - CC.1.5.K/3.1.K/4.1.K/K-LS1-1/K-ESS2-2/K-ESS3-1/K-ESS3-3

1st Grade - CC.1.5.1/3.1.1/1-LS1-1

2nd Grade - CC.1.5.2/3.1.2/4.1.2/2-LS2-1/2-LS4-1

AVIAN ADVENTURES

Grades 1-3; .75 hours; \$3.50/participant, minimum \$100

Location(s): V

Just how much fun would it be to be a bird? Learn all about birds, their bodies, where they live and how they behave. Are all birds the same? You'll be amazed at how many different bird types there are!

Standards:

1st Grade - CC3.1.1/1-LS3-1

2nd Grade - CC3.1.2/4.1.2/2-LS4-1

3rd Grade - CC3.1.3/4.1.3/3-LS3-2/3-LS4-2

ECOSYSTEM EXPLORATIONS – FOREST**Grades 3-5; 1.5 hours; \$7.75/participant; 2 hours; \$8.00 participant****Location(s):** **M**

Explore a forest community while discovering how its inhabitants interact and adapt. During the study, students collect organisms and examine their interdependence through the transfer of energy. They collect soil health data and learn how it affects this community.

Standards:

3rd Grade – CC3.1.3/3.3.3/4.1.3/4.4.3/3-LS1-1/3-LS2-1/3-LS4-3/3-LS4-4

4th Grade – CC3.1.4/3.2.4/3.3.4/4.1.4/4.4.4

5th Grade – CC3.1.5/3.3.5/4.1.5/4.4.5/5-LS1-1/5-LS2-1

ECOSYSTEM EXPLORATIONS – POND**Grades 3-5; 1.5 hours; 7.75/participant; 2 hours; \$8.00/participant****Location(s):** **M**, **O**

Take a hike to our pond to learn more about the living and nonliving components of its ecosystem. Observe how inhabitants and nearby animals interact and adapt. Discuss the importance of food webs and conduct chemical testing on the water. Dip net to find out what macroinvertebrates call the Myrick pond their home.

Standards:3rd Grade – CC1.5.3/3.1.3/4.1.3/4.2.3/4.5.3/3-LS4-2/3-LS4-3/3-LS4-44th Grade – CC1.5.4/3.1.4/3.4.4/4.1.4/4.2.4/4.3.4/4-LS1-1/4-LS1-2/4-ESS2-15th Grade – CC1.5.5/3.1.5/3.3.5/3.4.5/4.1.5/4.2.5/4.5.5/5-LS1-1/5-LS2-1/5-PS3-1**ECOSYSTEM EXPLORATIONS – STREAM****Grades 3-5; 1.5 hours; \$7.75/participant; 2 hours; \$8.00/participant****Location(s):** **C**, **M**, **S**, **O**

Walk to one of our streams to study the surrounding ecosystem, including plants nearby. Learn where streams originate and the importance of keeping them clean and healthy. Water testing and macroinvertebrate sampling will give participants a hands-on experience to determine the stream's water quality. Play a game to learn more about food webs in this habitat.

**Standards:**3rd Grade – CC1.5.3/3.1.3/4.1.3/4.2.3/4.5.3/3-LS4-2/3-LS4-3/3-LS4-44th Grade – CC1.5.4/3.1.4/3.4.4/4.1.4/4.2.4/4.3.4/4-LS1-1/4-LS1-2/4-ESS2-15th Grade – CC1.5.5/3.1.5/3.3.5/3.4.5/4.1.5/4.2.5/4.5.5/5-LS1-1/5-LS2-1/5-PS3-1

FINDINGS OF FALL

Grades Pre-K-2; 1.5 hours; \$7.00/participant

Available September – Mid November

Location(s): **C**, **M**, **S**, **O**

Investigate changes in nature that take place in the fall. Discover how plants and animals adapt to prepare for the upcoming winter. Learn how animals plan ahead, and why they migrate and hibernate.

Standards:

Pre-K – CC.1.5.PK/3.1.PK/3.3.PK/4.1.PK

Kindergarten – CC.1.5.K/3.1.K/4.1.K/4.2.K/K-LS1-1, K-ESS2-1/K-ESS3-1

1st Grade – CC.1.5.1/3.1.1/4.1.1/4.4.1/1-LS1-1/1-LS3-1

2nd Grade – CC1.5.2/3.1.2/4.1.2/4.2.2/2-LS2-1/2-LS2-2/2-LS4-1

GEOLOGY AND LANDFORMS

Grades 3-5; 1.5 hours; \$7.00/participant

Location(s): **C**, **M**

Don't get stuck between a rock and a hard place! Gain a hands-on understanding of Geology fundamentals. Learn about the layers of the Earth and how metamorphic, igneous and sedimentary rocks are formed. Go on a hike to identify rock outcroppings on our property and find evidence of both natural and human-made changes in the landscape.

Standards:

3rd Grade – CC1.5.3/3.3.3

4th Grade – CC1.5.4/3.3.4/4.5.4/4-ESS2-1

5th Grade – CC1.5.5/3.3.5/5-PS2-1



INCREDIBLE INSECTS

Grades 1-3; .75 hours; \$3.50/participant, minimum \$100

Location(s): **V**

Discover some of the many incredible insects that call the Myrick Conservation Center home. Play games to learn about their body parts, life cycles and buggy behavior. Get an up-close view exploring these fascinating creatures in their habitat and discover their importance in the natural world.

Standards:

1st Grade – [CC3.1.1/4.4.1/4.5.1/1-LS3-1](#)

2nd Grade – [CC3.1.2/4.4.2/2-LS4-1](#)

3rd Grade – [CC3.1.3/4.1.3/4.2.3/3-LS4-2/3-LS4-3](#)

INSPECTING INSECTS

Grades 3-5; 1.5 hours; \$7.00/participant

Available Mid April - October

Location(s): **C, M, S, O**

Insects are everywhere! Spark your inner entomologist as you learn about the anatomy and life cycles of these creepy crawlers. Students will have the opportunity to try different collection techniques to examine a variety of insects in their habitats. Take a hands-on approach to learn how some insects adapt to survive in their surroundings.

Standards:

3rd Grade – [CC1.5.3/3.1.3/4.2.3/4.5.3/3-LS3-1/3-LS3-2/3-LS4-2/3-LS4-3/3-LS4-4](#)

4th Grade – [CC1.5.4/3.1.4/4.1.4/4.2.4/4.5.4/4-LS1-1/4-LS1-2](#)

5th Grade – [CC1.5.5/3.1.5/5-LS2-1/5-PS3-1](#)



LENAPE LIFE

Grades 3-5; 1.25 hours; \$3.50/participant, minimum \$100

Location(s): **V**

Step back in time, and explore the lives of the pre-contact Lenape Native Americans. Students will learn about their home-life, hunting and fishing techniques. Post program, they can explore “crafts” that were part of their everyday life allowing them to survive as well as simple games...some to pass the time, some to build important skills for hunting.

Standards:

3rd Grade – CC3.4.3/4.1.3/4.3.3/4.4.3/4.5.3

4th Grade – CC3.4.4/4.3.4/4.5.4

5th Grade – CC3.1.5/4.5.5

LIKE THE LENAPE – HALF DAY

Grades 2-5; 1.5 hours; \$8.00/participant

Location(s): **M, O**

Want to learn about Native American life and still have time for another program? Then step back in time and explore the ways of the pre-contact Lenape tribe. Visit our replica Lenape Village where you will have the opportunity to see tools that were used for hunting and in daily homelife. Play popular skill games to see if you have what it takes to survive in the wild like a Native American!

Standards:

2nd Grade – CC1.5.2/3.1.2/4.1.2

3rd Grade – CC1.5.3/3.1.3/3.4.3/3.4.5/4.1.3/4.2.3/4.3.3/4.4.3/4.5.3/8.1.3/3-LS4-2/3-LS4-3/3-LS4-4

4th Grade – CC1.5.4/3.1.4/3.4.4/4.1.4/4.3.4/4.5.4/4-ESS3-1

5th Grade – CC1.5.5/3.1.5/4.5.5/5-ESS3-1



LIKE THE LENAPE – FULL DAY

Grades 3-5; 3 hours; \$12.00/participant

Location(s): **M**

Can't get enough of our local Native Americans? Make it a full day of Lenape with this program. Take a hike to our replica Lenape Village as you learn about homelife and hunting techniques. Try your hand at popular skill games, and handle tools that were used in daily life. Fishing techniques will be modeled, and participants will go on a walk to identify plants that the Lenape used for food and medicinal purposes. This program is broken up into two 1.5 hour sessions with a lunch break in between. Maximum 75 students, minimum charge for 25 students due to extensive setup.



Standards:

3rd Grade – [CC1.5.3/3.1.3/3.4.3/3.4.5/4.1.3/4.2.3/4.3.3/4.4.3/4.5.3/8.1.3/3-LS4-2, 3-LS4-3, 3-LS4-4](#)

4th Grade – [CC1.5.4/3.1.4/3.4.4/4.1.4/4.3.4/4.5.4/4-ESS3-1](#)

5th Grade – [CC1.5.5/3.1.5/4.5.5/5-ESS3-1](#)

NATIVE WILDLIFE HABITATS

Grades K-2; 1 hour; \$3.50/participant, minimum \$100

Location(s): **V**

What native wildlife lives in your community and what do they need to survive? Students will have the opportunity to get an up close and personal view of some native animals that call BRC's Myrick Conservation Center their home. They will "explore" different habitats and determine if they meet an animal's basic needs.

Standards:

Kindergarten – [CC1.5.K/3.1.K/4.1.K/K-LS1-1/K-ESSE](#)

1st Grade – [CC1.5.1/3.1.1/4.1.1](#)

2nd Grade – [CC1.5.2/3.1.2/4.1.2](#)

PEBBLES, SAND AND SOIL

Grades 1-3; 1.5 hours; \$7.00/participant

Location(s): C, M, S, O

Based on the Foss® kit, this program brings the inquiry-based approach to the outdoor classroom. Observe rocks and other earth materials by investigating water in a stream, learning about what makes up soil and sorting rocks by particle size. Get your hands dirty by using different tools to see what makes up soil.

Standards:

1st Grade – CC.1.5.1/3.3.1

2nd Grade – CC1.5.2/4.3.2/4.5.2/2-PS1-1/2-ESS2-1

3rd Grade – CC1.5.3/3.3.3



POND SENSE

Grades K-2; 1.5 hours; \$7.00/participant

Location(s): M, O

Go on a sensory journey around the pond! Learn the different stages of the frog's life cycle and play a game to find out more about animals that live in and around this community. Dip net in the pond to see who lives there and how they survive. Depending on age of participants, collecting at pond site might be done by an instructor.

Standards:

Kindergarten – CC.1.5.K/3.1.K/4.1.K/K-LS1-1/K-PS3-1/K-ESS3-3

1st Grade – CC.1.5.1/3.1.1/3.3.1/4.5.1/1-LS3-1

2nd Grade – CC1.5.2/3.1.2/4.1.2/4.2.2/4.4.2/4.5.2/2-LS4-1/2-ESS2-2/2-ESS2-3

SIGNS OF SPRING

Grades Pre-K-2; 1.5 hours; \$7.00/participant

Available Mid April – June

Location(s): C, M, S, O

Go on a walk to watch Spring unfold as buds form and wildflowers bloom. See if you can spot hibernators emerging from their winter shelters as the days grow longer and warmer. Learn why plants and animals change with the season.



Standards:

Pre-K – CC.1.5.PK/3.1.PK/3.3.PK/4.1.PK

Kindergarten – CC.1.5.K/3.1.K/4.1.K/4.2.K/K-LS1-1/K-PS3-1/K-ESS2-1

1st Grade – CC.1.5.1/3.1.1/4.1.1/4.4.1/1-LS1-1/1-LS3-1

2nd Grade – CC1.5.2/3.1.2/4.1.2/4.2.2/2-LS2-1/2-LS4-1/2-ESS2-1/2-ESS2-2/2-ESS2-3

STREAM SENSE

Grades K-2; 1.5 hours; \$7.00/participant

Location(s): C, M, S, O

Practice using your senses as you explore a stream habitat and its surroundings. Students will discover what plants and animals live in and near a stream and learn about what makes this habitat so unique.

Depending on age of participants, collection at stream site might be done by an instructor.



Standards:

Kindergarten – CC.1.5.K/3.1.K/K-LS1-1/K-PS3-1/K-ESS3-3

1st Grade – CC.1.5.1/3.3.1/4.1.1/1-LS3-1

2nd Grade – CC1.5.2/3.1.2/4.2.2/4.4.2/2-LS4-1/2-ESS2-1/2-ESS2-2/2-ESS2-3

TREES ARE TOPS

Grades K-2; 1.5 hours; \$7.00/participant

Location(s): C, M, S, O

Come experience what it takes to be a tree! Go on a “sense-sational” hike to explore a variety of trees and learn about the parts that keep them alive and healthy. Students will discuss the importance of trees to all living things and how they must stay rooted by adapting to survive in various environments.

Standards:

Kindergarten – CC.1.5.K/3.1.K/3.2.K/4.1.K/4.3.K/4.4.K/4.5.K/K-LS1-1/K-ESS3-1

1st Grade – CC.1.5.1/3.3.1/3.2.1/4.1.1/4.3.1/4.5.1/1-LS3-1

2nd Grade – CC1.5.2/CC.2.4.2/3.1.2/4.1.2/4.5.2/2-LS4-1

WATERSHED PROGRAM

Grades 4-5; 2 hours; \$14.00/participant

Location(s): M, O

Watersheds are unique systems just like your academic needs. Let us create a hands-on customized program to compliment your curriculum.

Topics include:

- Importance of water
- Water cycle
- Flow of water within a watershed
- Stormwater Management
- Water Quality/Pollution
- Best Management Practices
- Aquatic Insects
- Sources of water for public use



Standards vary by program choice and can include:

3rd Grade – CC1.5.3/4.2.3/4.3.3/4.5.3/3-ESS3-1/3-LS4-4

4th Grade – CC1.5.4/3.3.4/4.2.4/4.5.4/4-ESS2-1

5th Grade – CC1.5.5/3.2.5/3.3.5/4.2.5/4.5.5/5-ESS2-2/5-ESS3-1/5-PS2-1

WATERSHEDS & WETLANDS

Grades 3-5; 1 hour; \$3.50/participant minimum \$100

Location(s): **V**

What is a watershed? Learn how water moves through the water cycle and in turn watersheds. Witness how water can be polluted and how wetlands benefit watersheds.

Standards:

3rd Grade – CC4.2.3/4.5.3/3-ESS3-1/3-LS4-4

4th Grade – CC3.3.4/4.1.4/4.2.4/4.3.4/4.5.4/

5th Grade – CC3.3.5/4.2.5/5-ESS3-1/5-LS1-1

WHAT'S IN A WETLAND?

Grades 3-5; 1.5 hours; \$7.00/participant

Location(s): **C, M**

Take a walk to discover the biological diversity of wetland environments and learn why protection of them is so important. Participate in hands-on activities to see how wetlands soak up water, act as filters and help to slow runoff. Search for signs of animals and observe the unique adaptations of wetland plants.

Standards:

3rd Grade – CC1.5.3/3.1.3/4.1.3/4.2.3/4.5.3/3-LS3-1/3-LS3-2/3-LS4-2/3-LS4-3/3-LS4-4

4th Grade – CC1.5.4/3.1.4/3.3.4/4.1.4/4.2.4/4.3.4/4.5.4/4-LS1-1

5th Grade – CC1.5.5/4.2.5/5-LS1-1/5-PS2-1



WHAT'S AN ENVIRONMENTALIST TO DO?

Grades 3-5; 1.5 hours; \$8.50/participant

Location(s): **M**

Students will select from several local environmental issues then plan and carry out an investigation of that issue. Through a hands-on field experience, students will collect, observe and interpret data. They will then design an action plan to resolve that issue and predict and evaluate the outcomes of that plan. Students will walk away knowing how local issues are connected to larger systems.

Standards:

3rd Grade - CC 3.1.3/3.4.3/4.1.3/4.2.3/4.3.3/4.4.3/4.5.3/3-LS4-4

4th Grade - CC 3.4.4/4.1.4/4.2.4/4.3.4/4.5.4

5th Grade - CC 3.2.5/3.4.5/4.2.5/4.5.5/5-LS1-1/5-LS2-2/3-5-ETS1-1/3-5-ETS1-2

2022 STEELS - 3.1.3.H/3.2.5.C/3.3.5.E/3.3.5.F/3.4.3-5.A,B,C,D,E,F/3.5.3-5.F,I,M,P,U,AA

WILD ABOUT WEATHER

Grades K-2; 1.5 hours; \$7.00/participant

Location(s): **C, M, S, O**

Calling all future Meteorologists! Do you know what makes weather happen and how it affects people, plants and animals? Investigate the steps of the water cycle before collecting weather-related data and recording your findings. Play a game to learn about the different cloud forms and then try to predict some future weather patterns. Go on a hike to locate seasonal signs and discover the role weather plays on them.

Standards:

Kindergarten - CC.1.5.K/3.3.K/4.1.K/4.2.K/

K-PS3-1/K-ESS2-1/K-ESS3-2

1st Grade - CC.1.5.1/3.3.1/4.1.1/4.2.1

2nd Grade - CC.1.5.2/CC.2.4.2

3rd Grade - 3.3.3/ESS2-1

WONDERS OF WATER

Grades 1-3; 1.5 hours; \$7.00/participant

Location(s): M

Water travels in a cycle, yes it does! Students will learn about the important role that water plays in the survival of all living things and why we must keep it clean. Flow through the stages of the water cycle with hands-on activities, and exploration of an aquatic habitat at the Myrick Conservation Center.

Standards:

1st Grade - CC1.5.1/3.1.1/3.3.1/4.2.1/4.5.1

2nd Grade - CC1.5.2/3.1.2/3.3.2/4.1.2/4.2.2/4.5.2/2-ESS2-2/2-LS4-1

3rd Grade - CC1.5.3/3.1.3/4.2.3/4.5.3/3-LS4-3/3-LS4-4

WORKING WATERSHED

Grades 3-5; 1.5 hours; \$7.00/participant

Location(s): M

What is a watershed anyway? Participate in activities to learn more about how water moves through the water cycle and in turn watersheds. See how much water on Earth is available for use and witness how water can become polluted. Explore ways that you can be a local watershed warrior!

Standards:

3rd Grade - CC1.5.3/4.2.3/4.3.3/4.5.3/3-ESS3-1/3-LS4-4

4th Grade - CC1.5.4/3.3.4/4.2.4/4.5.4/4-ESS2-1

5th Grade - CC1.5.5/3.2.5/3.3.5/4.2.5/4.5.5/5-ESS2-2/5-ESS3-1/5-PS2-1



CANOEING WATER QUALITY

**Grades 7-8; 4 hours;
\$35.00/participant**

Available May - October

Canoe the Brandywine Creek to learn more about local freshwater resources.

Experience the stream

ecosystem while stopping at multiple sites to study and test the quality of the water and sample for aquatic organisms. See how gathering this data is essential to determining the health of the stream. Canoeing experience is not necessary, as basic instruction will be provided. Trip leaves from Northbrook Canoe Company. Two teachers free. Additional chaperones will be charged current rate for kayak.



Standards:

7th Grade - [CC.1.5.7/3.1.7/4.1.7/4.2.7/MS-LS2-1/MS-LS2-4](#)

8th Grade - [CC.1.5.8/3.1.8/4.2.8/4.5.8/MS-LS2-1/MS-LS2-4](#)

LENAPE LORE – HALF DAY

Grades 6-8; 2 hours; \$8.50/participant

Location(s): 

Want to learn about Native American life and still have time for another program? Then, step back in time and explore the lives of the pre-contact Lenape Native Americans. Choose between two options:

1) Learn more about history of the Lenape where you will have the opportunity to make cordage, see tools that were used for hunting and in daily homelife and participate in popular skill games. This option includes lots of facts and detailed information about the Lenape and the lives they led and gives more time to ask questions.

2) This option requires more participant independence and provides station-based activities to give students the opportunity to participate in daily jobs and tasks that the Lenape would have needed to do in order to survive in nature.

Standards:

6th Grade - [CC.1.5.6/3.1.6/4.1.6/4.5.6/8.2.6](#)

7th Grade - [CC.1.5.7/4.1.7/4.5.7/8.2.7](#)

LENAPE LORE – FULL DAY

Grades 6-8; 3 hours; \$13.00/participant

Location(s): M

Make it a full day of Lenape with this program. Take a hike to our replica Lenape Village as you learn about homelife, hunting tools and fishing techniques. Try your hand at popular skill games, and handle tools that were used in daily life. Hike through land inhabited by Lenape and identify plants that they used for food and medicinal purposes. This program is broken up into two 1.5 hour sessions with a lunch break in between. Maximum 75 students, minimum charge for 25 students due to extensive setup.

Standards:

6th Grade – [CC.1.5.6/3.1.6/4.1.6/4.5.6/8.2.6](#)

7th Grade –
[CC.1.5.7/4.1.7/4.5.7](#)



ORIENTEERING

Grades 6-8; 2 hours; \$8.00/participant

Location(s): M

Orient-What? Orienteering is an international sport that challenges participants to work as a team in navigating landmarks to complete a course of checkpoints. Students will review map features and how to orient themselves using a map and compass. Concepts also include scale, distance and elevation features. Think of it as a treasure hunt on foot!



Standards:

6th Grade – [CC.1.5.6/CC.2.3.6/7.1.6](#)

7th Grade – [CC.1.5.7/7.1.7](#)

8th Grade – [CC.1.5.8/7.1.8](#)

POND STUDY

Grades 6-8; 2 hours; \$8.00/participant

Location(s): **M**, **O**

Learn about how ponds are formed and the natural changes that they go through over time. Test the pH and dissolved oxygen levels in the water and sample for macroinvertebrates to determine the overall health of the pond ecosystem. See how physical changes can influence the biological diversity of a pond. This study includes discussion about the biotic and abiotic components, and energy flow within this ecosystem.



Standards:

6th Grade – [CC.1.5.6/3.1.6/4.2.6/MS-LS1-4/MS-LS1-5/MS-LS2-1/MS-LS2-3/MS-LS2-4](#)

7th Grade – [CC.1.5.7/3.1.7/4.1.7/4.2.7/MS-LS1-5/MS-LS2-1/MS-LS2-3/MS-LS2-4](#)

8th Grade – [CC.1.5.8/3.1.8/4.2.8/MS-LS1-5/MS-LS2-1/MS-LS2-3/MS-LS2-4](#)

STREAM STUDY

Grades 6-8; 2 hours; \$8.00/participant

Location(s): **C**, **M**, **S**, **O**

Visit one of our first order streams to test the pH and dissolved oxygen levels. Determine the biological diversity of the ecosystem by collecting, identifying and categorizing invertebrates and plants found. Evaluate how these chemical, physical and biological parameters aid in determining the overall health of the stream ecosystem. Discuss how biotic and abiotic factors in stream ecosystems affect the energy flow of the food webs within this aquatic habitat.

Standards:

6th Grade – [CC.1.5.6/3.1.6/3.4.6/4.2.6/MS-LS1-4/MS-LS1-5/MS-LS2-1/MS-LS2-3/MS-LS2-4](#)

7th Grade – [CC.1.5.7/CC.2.3.7/3.1.7/3.4.7/3.4.8/4.1.7/4.2.7/MS-LS1-5/MS-LS2-1/MS-LS2-3/MS-LS2-4](#)

8th Grade – [CC.1.5.8/CC.2.3.8/3.1.8/4.2.8/MS-LS1-5/MS-LS2-1/MS-LS2-3/MS-LS2-4](#)

SURVIVE ALIVE

Grades 6-8; 2 hours; \$8.00/participant
4 hours; \$14.00/participant

Location(s): **M**

Stranded at the Myrick Conservation Center with no sign of being rescued. Students will embark on a journey throughout the property on this STEM-based program to solve situational problems where they will need to ask, imagine, plan, create, test and improve before moving on. Do you and your team have what it takes to survive? This program can be a half day 2 hour program or a full day two 2 hour sessions with a lunch break in between.

Standards:

6th Grade – [CC.1.5.6/CC.2.3.6/4.2.6](#)

7th Grade – [CC.1.5.7/CC.2.3.7/3.4.7/4.2.7](#)

8th Grade – [CC.1.5.8/CC.2.3.8/3.4.8/4.2.8](#)

TEAM CHALLENGE

Grades 6-8; 2 hours; \$8.00/participant

Location(s): **M**

This program is similar to Adventure Team but includes more in-depth roles and emphasis on identifying group strengths and challenges. Physical and mental activities aim to support leadership, improve communication skills and facilitate trust. Debriefing exercises incorporate the use of various tools to develop strategies for overcoming obstacles. A beneficial program to foster personal growth.

Standards:

6th Grade – [CC.1.5.6/3.4.6](#) / [MS-ETS1-1/MS-ETS1-2](#)

7th Grade – [CC.1.5.7/3.4.7](#) / [MS-ETS1-1/MS-ETS1-2](#)

8th Grade – [CC.1.5.8/3.4.8](#) / [MS-ETS1-1/MS-ETS1-2](#)



THE ENVIRONMENTAL EXPERIENCE

Grades 6-8; 2 hours; \$9.00/participant

Location(s): **M**

Similar to “What’s An Environmentalist To Do” (gr. 3 – 5), students will select from several local environmental issues to plan and carry out an investigation of that issue. They will collect, observe, and interpret data. They will continue with the development of an action plan to resolve that issue. This age group will then be challenged to design a solution identified in the action plan. Students will have the opportunity to reflect, determine any patterns and identify any cause & effect relationships.

Standards:

6th Grade – CC 3.1.6/3.4.6/4.1.6/4.2.6/4.4.6/4.5.6/MS-LS2-1/MS-LS2-2/MS-LS2-5/MS-ESS3-3/MS-ETS1-1/MS-ETS1-2

7th Grade – CC 3.4.7/4.1.7/4.2.7/4.4.7/4.5.7/MS-LS2-1/MS-LS2-2/MS-LS2-5/MS-ESS3-3/MS-ETS1-1/MS-ETS1-2

8th Grade – CC 3.1.8/3.4.8/4.2.8/4.5.8/MS-LS2-1/MS-LS2-2/MS-LS2-5/MS-ESS3-3/MS-ETS1-1/MS-ETS1-2

2022 STEELS – 3.3.6-8.M,N,O/3.4.6-8.E,G,H,I/3.5.6-8.C,D,E

WATERSHED STUDY

Grades 6-8; 2 hours; \$14.00/participant

Location(s): **M, O**

Watersheds are unique systems just like your academic needs. Let us create a customized program to compliment your curriculum.

Topics include:

- Hydrologic cycle
- Watersheds of Pennsylvania
- Flow of water within a watershed
- Stream order
- Water quality/Pollution
- Best Management Practices
- Watershed features
- Role of wetlands & riparian buffers
- Sources of water for public use



Standards vary by program choice and can include:

6th Grade – CC.1.5.6/3.3.6/4.2.6/MS-LS2-5/MS-ESS2-4/MS-ESS3-3

7th Grade – CC.1.5.7/4.2.7/4.5.7/MS-LS2-5/MS-ESS2-4/MS-ESS3-3

8th Grade – CC.1.5.8/4.2.8/4.5.8/MS-LS2-5/MS-ESS2-4/MS-ESS3-3

CANOEING WATER QUALITY

Grades 9-12; 4 hours; \$40.00/participant

Location: Brandywine Creek

Available May – October

Canoe down the west branch of the Brandywine Creek to gain a better understanding of the importance of clean water. Stop at multiple sites to assess the water quality through physical, chemical and biological testing methods. Sample for aquatic organisms and learn how to use them as indicators of stream health and change. Canoeing experience is not necessary, as basic instruction will be provided. Trip leaves from Northbrook Canoe Company. Two teachers free. Additional chaperones will be charged current rate for kayak.

Standards:

9th & 11th Grades - [CC.2.3.HS/CC.2.4.HS/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

10th Grade - [CC.2.3.HS/CC.2.4.HS/3.1.10/4.1.10/4.2.10/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

12th Grade - [CC.2.3.HS/CC.2.4.HS/3.1.12/4.1.12/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)



POND STUDY

Grades 9-12; 2 hours; \$8.00/participant

Location(s): **M**, **O**

Learn about the past, present and future of the Myrick pond. Examine the physical, biological and chemical parameters of the pond to determine the health and biological diversity of its ecosystem. Students will then analyze this data to determine the overall health of the pond and discuss possible solutions to any problem(s) found. Compare the relationship between ecosystem changes and how this affects plant and animal populations.

Standards:

9th Grade - [CC.1.5.9/CC.2.2.HS/CC.2.4.HS/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

10th Grade - [CC.1.5.10/CC.2.2.HS/CC.2.4.HS/3.1.10/4.1.10/4.2.10/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

11th Grade - [CC.1.5.11/CC.2.2.HS/CC.2.4.HS/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

12th Grade - [CC.1.5.12/CC.2.2.HS/CC.2.4.HS/3.1.12/4.1.12/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)



Grades 9-12; Time of program varies**Cost to be determined based on length of tour**

Gain a better understanding of watershed conservation and pathways to environmental careers through a personalized tour! Visit some of BRC's stream restoration projects that work with local businesses and homeowners to improve water quality in the Brandywine and Red Clay Watersheds through best management practices (BMPs). Learn about the types of jobs that play key a role in watershed health. Program can also include a tour of a nearby water filtration and/or wastewater treatment plant. A great pathway for students enrolled in environmental coursework and/or looking to pursue a "green" career.

School must provide transportation.

Standards vary by program choice and can include:

9th & 11th Grades - [HS-LS2-7/HS-ESS2-5/HS-ESS3-4/HS-ETS1-2](#)

10th Grade - [4.2.10/4.3.10/HS-LS2-7/HS-ESS2-5/HS-ESS3-4/HS-ETS1-2](#)

11th Grade - [13.1.11](#)

12th Grade - [4.2.12/HS-LS2-7/HS-ESS2-5/HS-ESS3-4/HS-ETS1-2](#)

STREAM STUDY**Grades 9-12; 2 hours; \$8.00/participant**

Location(s):    

Head out to one of our streams to determine the health of the water at its source. Conduct pH, dissolved oxygen levels and nitrate tests. Determine the biological diversity of the ecosystem by collecting, identifying and categorizing invertebrates and plants found. Evaluate how these chemical, physical and biological parameters aid in determining the overall health of the stream ecosystem. Discuss how biotic and abiotic factors affect the energy flow of the food webs within this aquatic habitat.

Standards:

9th Grade - [CC.1.5.9/CC.2.2.HS/CC.2.4.HS/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

10th Grade - [CC.1.5.10/CC.2.2.HS/CC.2.4.HS/3.1.10/4.1.10/4.2.10/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

11th Grade - [CC.1.5.11/CC.2.2.HS/CC.2.4.HS/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

12th Grade - [CC.1.5.12/CC.2.2.HS/CC.2.4.HS/3.1.12/4.1.12/HS-LS2-6/HS-LS2-7/HS-LS2-8/HS-LS3-3/HS-LS4-2/HS-LS4-3/HS-LS4-4/HS-LS4-5/HS-ESS3-4](#)

TEAM CHALLENGE

Grades 9-12; 2 hours; \$8.00/participant

Location(s): **M**

This program is similar to Adventure Team but includes more in-depth elements and emphasis on identifying group strengths and challenges. Activities aim to strengthen leadership and communication skills. Debriefing exercises work to develop strategies for overcoming obstacles. A great program to cultivate teamwork at the beginning of the school year or to foster continual growth for the future!

Standards:

9th Grade – [CC.1.5.9/HS-ETS1-2](#)

10th Grade – [CC.1.5.10/3.4.10/HS-ETS1-2](#)

11th Grade – [CC.1.5.11/HS-ETS1-2](#)

12th Grade – [CC.1.5.12/3.4.12/HS-ETS1-2](#)



A BUG'S LIFE (DE OUTREACH)

Grade K-2; 1.5 hours; \$5.50/participant

Outdoor Classroom Site(s): 0

Insects collected in a sweep net can be fascinating! Learn the characteristics of insects and observe the similarities and differences between the various insects. Play games to learn about their body parts, life cycles and buggy behavior. Get an up-close view exploring these fascinating creatures in their habitat and discover their importance in the natural world.

Standards:

Kindergarten - K-LS1-1/K-ESS2-2/K-ESS3-3

1st Grade - 1-LS1-1/1-LS3-1

2nd Grade - 2-LS2-2/2-LS4-1

AMAZING ADAPTATIONS (DE OUTREACH)

Grade 3-5; 1.5 hours; \$5.50/participant

Location: 0

Explore nature near your school and observe a variety of structural and behavioral adaptations of plants and animals. Students will play educational games and go on a hike to see examples of how plants and animals have adapted in order to survive.

Standards:

3rd Grade - 3-LS1-1/3-LS2-1/3-LS3-1/3-LS3-2/3-LS4-2/3-LS4-3/3-LS4-4

4th Grade - 4-LS1-1/4-LS1-2

5th Grade - 5-LS2-1



AT HOME IN YOUR HABITAT (DE OUTREACH)**Grade K-2; 1.5 hours; \$5.50/participant****Location:** 0

Search for signs of wildlife while learning about the four basic components of a habitat. Students will discover a variety of animal homes while learning how specific habitats provide food, water, shelter and space, and why those homes are appropriate for each animal.

Standards:

Kindergarten - K-LS1-1/K-ESS2-2/K-ESS3-1/K-ESS3-3

1st Grade - 1-LS1-1/1-LS1-2

2nd Grade - 2-LS2-1/2-LS4-1

**DIGGIN' DIRT (DE OUTREACH)****Grade 2; 1.5 hours; \$5.50/participant****Location:** 0

Do all soils feel and smell the same? How do people, plants and animals use soil? Students will go on a hike and use their senses to examine different types of soil. They will learn what components make up soil through hands-on exploration.

Standards:

2nd Grade -2-PS1-1/2-ESS2-1/2-LS4-1

FINDINGS OF FALL (DE OUTREACH)**Grade K; 1.25 hours; \$5.50/participant****Available September – Mid November****Location:** 0

Discover how plants and animals adapt in the fall to prepare for the upcoming winter, observing the beautiful variety of autumn colors. Learn why different animals plan ahead, migrate and hibernate. Students will also investigate the adaptations of special seeds.

Standards:

Kindergarten - K-LS1-1/K-ESS2-1/K-ESS3-1

GEOLOGY (DE OUTREACH)

Grade 6; 3 hours (3 parts); \$5.50/participant

Location: 0

Explore the local geological history of the Brandywine Springs School area and discover some rocks unique to this area. Typically, parts 1 & 3 are learning in the classroom, including how different rocks are formed, the interaction of tectonic plates, and examining samples of rocks. Then for part 2, we take a hike to Hyde Park and observe signs of weathering, erosion, and deposition and learn their effects on changing the earth's surface.



Standards:

6th Grade – MS-ESS2-1/MS-ESS2-2/MS-ESS2-3

LENAPE – INDOOR (DE OUTREACH)

Grade 4; 1.5 hours; \$5.50/participant

Location: 0

Students will step back in time and explore the ways of “pre-contact” Lenape, our local Native Americans. They will learn about home life, hunting, fishing, and games while doing hands-on activities in our Lenape Village. They will also learn about the respect that the Native Americans had for nature and the land. This program is adapted for indoor use. Typically includes four stations separated in the four corners of a large auditorium-sized room. Please also refer to the Elementary School Program Section for the Lenape Programs available at the Myrick Conservation Center



Standards:

4th Grade – 4-ESS3-1, DE History H4.4-5a

MOLECULES MATTER (DE OUTREACH)

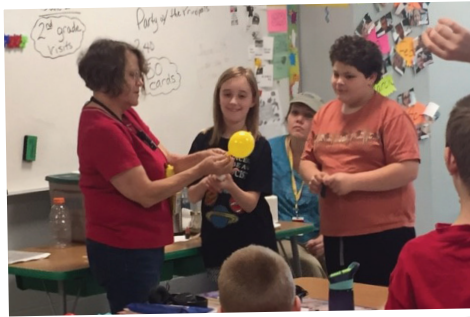
Grades 2 - 3; 1.5 hours; \$5.50/participant

Location: 0

What is matter? Do molecules move? Learn about the properties of different states of matter, factors that can change matter, and how. Go on a scavenger hunt to find different types of changing matter in the world around us.

Standards:

2nd Grade - 2-PS1-1/2-PS1-2/2-PS1-3/2-PS1-4



ORIENTEERING (DE OUTREACH)

Grade 2-4; 1.5 hours; \$5.50/participant

Location: 0

An activity designed to give students an understanding of the sport of Orienteering and the mental and physical benefits they gain through participation in the sport. Students will review map features, learn how to orient themselves using a map, and then work in teams to navigate a course of checkpoints.

Standards:

2nd Grade - 2-ESS2-2

3rd Grade - DE Geography
G1.K-3a

4th Grade - 4-ESS2-2



SIGNS OF SPRING (DE OUTREACH)

Grade K; 1.25 hours; \$5.50/participant

Available Mid April – June

Location: 0

Watch Spring unfold as buds and wildflowers pop up, hibernators emerge from their winter shelters and activity picks up again as the days grow longer and warmer. Students will learn how and why plants and animals change with the season, and observe natural events unique to Spring.

Standards:

Kindergarten -K-LS1-1/K-PS3-1/K-ESS1-2/K-ESS2-1/K-ESS3-1

SKULLS, SKELETONS, TEETH & FEET (DE OUTREACH)

Grade 3; 1.5 hours \$5.50/participant

Location: 0

A comparative study of skulls, skeletons, teeth and feet. Learn about bones, their form, structure and function. Dissect an owl pellet and discover what is inside. Examine skeletal remains and uncover clues as to what the animal ate, how it moved and if it was predator or prey.

Standards:

3rd Grade - 3-LS4-2/3-LS4-3/3-LS4-4



SOLIDS, LIQUIDS, & GAS (DE OUTREACH)

Grades 1 - 2; 1.5 hours; \$5.50/participant

Location: 0

A hands-on exploration of solids and liquids and an introduction to gas. Learn the properties of solids and liquids. Go on a hike and find examples of the different states of matter in our environment.

Standards:

2nd Grade – 2-PS1-1/2-PS1-4/2-ESS2-3

TREES ARE TOPS (DE OUTREACH)

Grade K; 1.25 hours; \$5.50/participant

Location: 0

What kind of trees are near your school? What are the parts of a tree? How do animals and people use trees? Students take a short hike and use their senses to learn about the trees near their school.

Standards:

Kindergarten – K-LS1-1/K-ESS-2/K-ESS3-1/K-ESS3-3

WILD ABOUT WEATHER (DE OUTREACH)

Grade K - 1, 1.5 hours; \$5.50/participant

Location: 0

What makes weather happen? How does weather affect people, plants, and animals? Can you predict weather by looking at the clouds? Learn about the water cycle, pantomime different cloud types, collect weather data and search for weather related items.

Standards:

Kindergarten – K-PS3-1/K-ESS2-1/K-ESS3-2



ENRICHMENT PROGRAMS

Open to any community group; minimum 10 participants; 2 hours
\$10/participant (program can be shortened to 1 ½ hours for
younger participants)

Location(s): **C**, **M**

Select from one of these options:

- **Beginner Birding** – Use ours or bring your own binoculars and join a BRC staff member as we search and identify the avian species that call our preserves their home.
- **Beginner Tree Identification (Myrick only)** – Come prepared to hike our properties and discover the many trees that we have here. Learn about different leaf shapes and structures.
- **Myrick Center Quest (Myrick only)** – Learn basic map reading skills and navigation while you move through up to 9 stations on our property. Challenge your environmental knowledge by answering a themed question...your choice of easy, medium or hard.
- **Nature Creations**
 - **Art In Nature** – For our crafty friends...come and stroll our property collecting natural items, then sit down and design a new piece of art to show off to your friends. You can use your creative genius or follow some of our suggestions.
 - **Musical Materials** – Use natural material to make a musical instrument. Be surprised as our instructor guides you through their choice of instrument.
- **Orienteering (Myrick only)** – get introduced to this international sport and work as a team to navigate landmarks and complete a course of checkpoints. Map reading and compass skills will be covered.

- **Owl Prowl** – Evening only program, start time depends on season. Learn about these fascinating creatures, dissect an owl pellet and prowl the property when they come alive at night.
- **Target Champs** – Practice your target skills...archery, atl atl (native American spear throwing), ax throwing and slingshots.
- **Trail Exploration**
 - **Inspector Gadget** – Take the time to slow down and enjoy a guided walk on our property and inspect all that lives here with some of our gadgets (magnifying lenses and handheld microscopes).
 - **Woods Walk w/ Guided Meditation** – join us for a leisurely stroll through our preserve and experience a guided meditation that will make you regret going back home! Season dependent snack may be offered, please let us know of any food allergies.
- **Water Exploration** – Follow us down to the stream or pond to study that ecosystem and learn about all the factors that go into evaluating it's health.



SCOUT PROGRAMS * All prices listed are per scout.

Brandywine Red Clay Alliance offers a variety of scout programs that aim to enhance the connection between your scouts and the natural world. We are currently expanding our offerings... please don't hesitate to inquire about any of the badges or adventures coming soon.

GIRL SCOUT BADGE OFFERINGS



DAISY

- Buddy Camper - \$10
- Eco Learner - \$10
- Outdoor Art Maker - \$12
- Trail Adventure - \$10
- Journey - Outdoor - \$18

BROWNIE

- Bugs - \$10
- Cabin Camper - \$15
- Eco Friend - \$10
- Hiker - \$12
- Outdoor Adventurer - \$12
- Outdoor Art Creator - \$12
- Sense - \$10
- Trail Adventure - \$12
- Journey - Wonders Of Water - \$18

Coming Soon

- Journey - Outdoor

JUNIOR

- Animal Habitat - \$12
- Camper - \$15
- Eco Camper - \$12
- Flowers \$12
- Gardener - \$12
- Geocacher - \$12
- Outdoor Art Explorer - \$12
- Trail Adventure - \$12
- Journey - Outdoor - \$30

Coming Soon

- Playing The Past
- Staying Fit

CADETTE

- Archery - \$10
- Night Owl - \$12
- Trees - \$10
- Outdoor Art Apprentice - \$12
- Primitive Camper - \$15

Coming Soon

- Eco Trekker
- Trail Blazing
- Journey - Outdoor

Do you have a Senior or Ambassador troop that has a badge need similar to those listed?

Just Ask!



CUB SCOUT ADVENTURE OFFERINGS



LION

Coming Soon

- Ready Set Grow

TIGER

Coming Soon

- My Tiger Jungle
- Tigers In The Wild

WOLF

Coming Soon

- Call Of The Wild
- Finding Your Way
- Grow Something
- Paws On The Path

BEAR

Coming Soon

- Fur, Feathers, and Ferns

WEBELO

- Earth Rocks - \$12
- Into The Wild - \$12
- Into The Woods - \$10
- Webelo Walkabout - \$10

MORE SCOUT OPPORTUNITIES

If you have a Girl Scout looking to earn their **Bronze, Silver or Gold Awards**, or an Eagle Scout looking to complete their **Eagle Scout Project**, and they have an interest in conservation and helping us enhance our existing programs, we may have an opportunity for them. We also have **volunteer opportunities** throughout the year and will provide documented hours.

Looking to host a campout...we have a gorgeous campsite to pitch tents. We also offer fire pits in two locations as well as a sheltered outdoor pavilion. You are required to register for a program in order to use our facilities...you may select from one of our existing school or scout programs or we can customize one for you based on interests. There is an additional refundable damages deposit required to book the program/campout. Please review our Property Usage Guidelines and Checklist.

Please email ahart@brandywineredclay.org to inquire about scheduling a program or request information on these additional opportunities.

Looking for additional public programming or to volunteer your time for a cause? Do you need service hours for school or scouts?

Check out our opportunities, they're updated throughout the year!



Online Calendar

We're continuously adding new programs and events. Please check our online calendar frequently.

www.brandywineredclay.org/events/



Volunteer Opportunities

2024 SCHEDULED CLEANUPS

Red Clay Valley – Saturday, March 23, 2024

Brandywine Valley – Saturday, April 20, 2024

Follow Brandywine Red Clay Alliance on social media!

You'll be notified as soon as we add new programs and events



Questions?

Reach out and drop us a line!

Alexa Hart

ahart@brandywineredclay.org

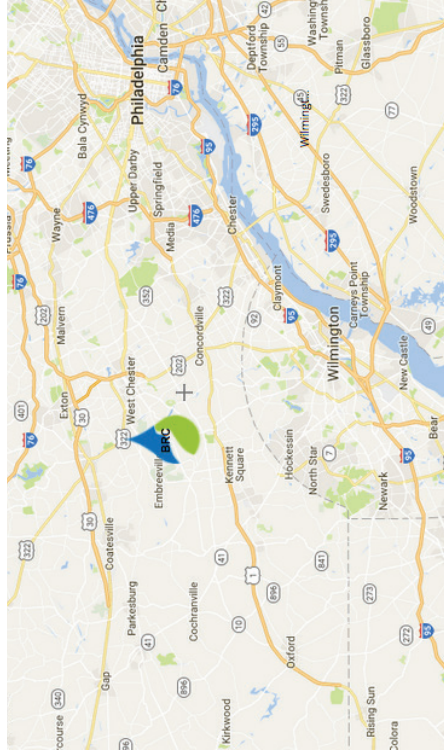
Please consider becoming a member today!

Our work is supported entirely by individuals, families, corporations and private foundations who believe in the importance of conservation and environmental education for future generations. We depend on you to help further our conservation and education work.



1760 Unionville-Wawaset Road, West Chester, PA 19382 | 610.793.1090
contact@brandywineredclay.org | brandywineredclay.org

Address Service Requested



Register Now for 2024 Programs!

FOLLOW US ON SOCIAL MEDIA

