

ECHO EDUCATOR'S GUIDE 2016-2017

ECHO's state-of-the art science center and lake aquarium welcomes school groups year round. With our incredible location on the historic Burlington Waterfront, ECHO serves as the perfect destination for your half-day or full-day Burlington adventure, no matter what the season.



3 Easy Steps to Booking your ECHO Adventure Today

- Step 1: Choose between our 3 field trip options.
- Step 2: Check out our changing exhibit schedule, program schedule, and Theater schedule and select a date.
- Step 3: Book your trip by completing our online reservation form at echovt.org/schoolgroups.

Group Rates

- \$8.00** PreK -12th grade student admission
 - FREE** One adult admission for every five youth (including teachers)
 - \$10.00** Each additional adult admission
 - \$10.00** College student admission
 - \$3.00** Student and adult National Geographic Theater ticket (plus admission)
- Live Butterfly Exhibit opens Feb. 11th



LEAHY CENTER
FOR LAKE CHAMPLAIN



Repeat Visit Policy

Group of students can return to ECHO and receive FREE admission for a limited time after the group's first visit. This policy is ECHO's way of supporting student projects that deepen learning about Lake Champlain. See our website or call for more information (some restrictions apply).

Field Trip Option 1: Self-Guided Group Experience

Self-guided tours give your group access to the more than 100 hands-on exhibits, 70 species of live animals, daily activities, student scavenger hunts, and discussion guides. Groups will receive a personalized welcome by ECHO staff.

Field Trip Option 2: Teacher's Choice Program (additional \$75/program)

Our most popular option. Designed for students in grades K - 12, each 45 min, educator-led program builds off the VT State Standards and makes connections to the ecology, culture, history, and opportunities for stewardship in the Lake Champlain Basin. This year's offerings also include hands-on STEM focused *Engineering in Action* programs that encourage creativity, invention and problem solving. Includes everything listed in the self-guided option.

Field Trip Option 3: National Geographic Film (additional \$3.00/person)

Add this to your visit and experience beautiful, 2D and 3D educational films.



Teacher's Choice Program Descriptions for 2016 - 2017

***Engineering in Action: Zip Carts* (K - 5)**

Lake Champlain's endangered spiny softshell turtles are in trouble and need your help! Students will use the engineering design process to transport turtles to safety as they plan, build, and evaluate solutions to ECHO's zipline challenge. This program incorporates science, technology, engineering and math concepts into one exciting rescue mission!

***Engineering in Action: Butterflies in Motion* (K - 5) *Offered February-June Only**

In conjunction with ECHO's special temporary, live butterfly exhibit students will learn about the ecology of Vermont butterflies and practice their engineering design skills as they plan, build and problem solve a solution to an engineering challenge.

***Wetland Wonders* (K - 3)**

It's a sponge, it's a filter, it's a nursery...it's a wetland! Explore the living and nonliving elements of this important habitat as we bring wetland to life by evoking its unique sights and sounds.

***Native American Games* (K - 3)**

Experience the games played by the indigenous people of the Lake Champlain Basin. Students will get a hands-on lesson on pre-1800's Native American Culture and the important role games played in their lives.

***Amphibians All Around Us* (K - 3)**

Call and hop your way to understanding the characteristics, behaviors, and life cycles of amphibians found in the Lake Champlain Basin. Learn about the challenges they face and how we can help them survive.

***Rock and Roll Geology* (3 - 6)**

Explore 20,000 years of geologic history in the Lake Champlain Basin. Students will discover the forces that shaped the land we see today and then identify local rock types using a hands-on geology lab.

***Native American Artifact Inquiry* (3 - 6)**

Explore Native American artifacts to illuminate the sophistication of pre-1800's Abenaki life. Students will learn how to interpret historical objects in order to better understand traditional ways of life.

***Fins, Form and Function* (3 - 6)**

How does a fish's shape, color and structure reflect its way of life? Students will compare the anatomy of different fish and analyze how the animal's structure relates to its habitat and behavior, and conduct their own investigation of live fish at ECHO.

***Basin Biodiversity* (7 - 12)**

Students will learn how native biodiversity is being tracked in the Basin and how they can contribute to the work being done as a citizen scientist. Participants will watch an exclusive ECHO movie short and meet one of ECHO's live animal ambassadors.