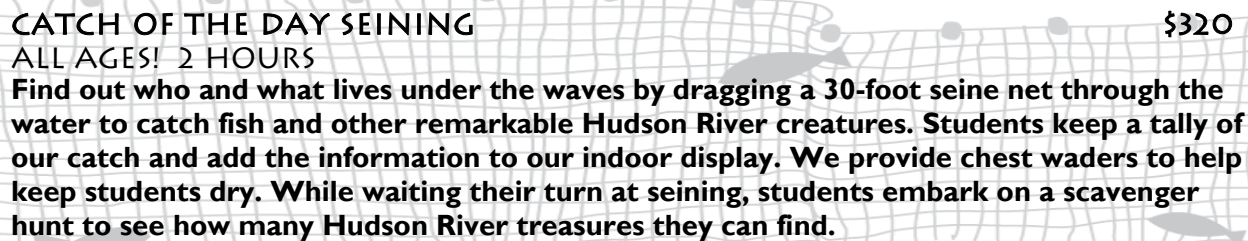


River Exploration Programs

Grades pre- k through 12

*All programs meet various NYS Department of Education Learning Standards.
Each program can be modified to meet the specific needs for your class.*

Programs accommodate a maximum of 25 students.



CATCH OF THE DAY SEINING **\$320**
ALL AGES! 2 HOURS
Find out who and what lives under the waves by dragging a 30-foot seine net through the water to catch fish and other remarkable Hudson River creatures. Students keep a tally of our catch and add the information to our indoor display. We provide chest waders to help keep students dry. While waiting their turn at seining, students embark on a scavenger hunt to see how many Hudson River treasures they can find.

These programs follow the tides and are limited, so please call in advance to schedule your trip.



***Discover nature through books and Beczak's backyard!**
GRADES PRE-K – K 1 HOUR

\$180

Mister Seahorse by, Eric Carle

Discover how fish use **camouflage** to hide from predators and care for **offspring** in unique ways. After reading about the journey of Mr. Seahorse, students create scenes of seahorses hidden among the water celery.

The Very Hungry Caterpillar by, Eric Carle

This all time favorite book features the **life cycle** of a caterpillar as it grows from an egg to cocoon to a beautiful butterfly. **Days of the week, counting** and **healthy nutrition** is also emphasized during the story telling, followed by a craft to take home!

Ask about our other featured stories!

RIVER EXPLORATION
GRADES PRE- K - K 1 HOUR

\$180

Students participate in a beach scavenger hunt to find treasures washed up onto the shore. Then they use their **senses** to classify their findings and other Hudson River artifacts by identifying **plant and animal characteristics**.

***ANIMAL ADAPTATIONS** \$180

GRADES 1-3 1 HOUR

How do fish swim? How do birds fly? Students discover the unique adaptations of various fish, birds, reptiles and mammals that inhabit the Hudson River watershed. Participants will view real life adaptations using our resident turtles, fish and other species.

***FISH SENSES** \$180

GRADES 1-3 1 HOUR

How many senses do fish have? Find out by exploring Beczak's resident fish and displays to see how species vary in size, shape, and function as we compare human **senses** and **sense organs** to those of fish. Hands on activities are provided to demonstrate how fish survive in the muddy Hudson River.

HUDSON RIVER START TO FINISH \$220

GRADES 2-5 1.5 HOURS

Students learn about Hudson River **geography, estuaries, watersheds, tides, wetlands** and **pollution** by participating in demonstrations using Beczak's one-of-a-kind Hudson River Estuary Model. They test three water samples with **hydrometers** to deduce where in the Hudson the samples originated. Hudson River mapping activity is also included during the wrap up.

***HUDSON RIVER FOOD CHAIN** \$180

GRADES 3-5 1 HOUR

Students role play parts of the **food chain** and discover the interdependencies of plants and animals in the Hudson River watershed. See how those relationships change when **pollution** enters the system.

COME FLY WITH ME \$220

GRADES 3-6 1.5 HOURS

Discover **bird adaptations** through hands on demonstrations featuring how birds use their feathers, beaks and feet for survival. Students face challenges as they role play birds migrating from one place to another. Using spotting scopes and binoculars they will observe the riverfront for bird sightings and then create bird feeders out of recycled water bottles to take home!

PEEK AT PLANKTON \$220

GRADES 3-6 1.5 HOURS

Plankton is not just a cartoon character! Enter the fascinating world of aquatic **Phytoplankton** (plant plankton) and **zooplankton** (animal plankton) beginning with their role in **food chains**. Students toss a plankton net into the river to collect live specimens. Then learn **observation and identification techniques** using hand lenses, a video microscope and reference guides.

GEOLOGY ROCKS! \$220

GRADES 3-6 1.5 HOURS

Students participate in demonstrations to understand the characteristics of **sedimentary, igneous** and **metamorphic rocks**. Utilizing Beczak's exhibit they will discover the **geological processes** which led to the **formation of the Palisades**. Students create Palisades artwork taken by the fascinating view from Beczak.

MARSH EXPLORATION \$220

GRADE 3-6 1.5 HOURS

Explore our tidal marsh and uncover the secrets of this delicate system. Students work in teams learning about **marsh zones, tides, and plant adaptations** to stake the boundaries of our marsh and label significant ecological components.

FISH IDENTIFICATION \$180

GRADES 4-6 1 HOUR

How can you tell a striped bass from a white perch? Exploring fish from Beczak's aquaria, students will use a **dichotomous key** to identify various Hudson River fish species with an emphasis on form and function, external anatomy, as well as both physical and behavioral adaptations.

HUDSON RIVER OYSTERS **\$220**

GRADES 4-8 1.5 HOURS

Explore the fascinating world of bivalves (oysters, clams and mussels). See how these **invertebrates** play a vital role in the health of the river. Students will measure and record oyster shell length and observe common predators to support an ongoing study with NY/NJ Baykeeper Oyster Restoration Project.

CONNECT TO THE HUDSON **\$720**

GRADES 4-12 4 HOURS

Students explore **water chemistry**, **weather conditions** and river **ecology** of the Hudson and collect data. Using **video-conferencing** technology, the culminating activity allows your students to share their anecdotal experiences and data collected in Yonkers with other students anywhere in the world!

***WATER CLEANUP** **\$180**

GRADES 5-8 1 HOUR

In this fun, messy activity, students compete in groups to see which team can make the best **economic** and procedural decisions to best clean “**pollution**” from a water sample.

HUDSON RIVER WATER CHEMISTRY AND WEATHER **\$220**

GRADES 7-12 1.5 HOURS

Students record weather data and collect **water samples** to measure **physical and chemical parameters**. Interactive demonstrations and **data analysis** help students understand the dynamic roles of each parameter in the Hudson. The data is compared to our **real-time data** from our Hudson River monitoring system!

HUDSON RIVER PERSPECTIVE **\$180**

GRADES 9-12 1 HOUR

Students observe, interpret and create artwork of the Hudson River and **Palisades** utilizing a variety of mediums and poetic writing. The Hudson’s historic role in **art** inspiration will be emphasized.

**Can’t afford buses for field trips?
Beczak can bring the Hudson River to your School!**

HUDSON RIVER IN YOUR CLASSROOM **\$200**

GRADES PRE-K – 5 1 HOUR

A Beczak educator brings the Hudson River into your classroom. Students learn about the Hudson River watershed through interactions with live animals, beach artifacts and even a water taste test! Through hands on demonstrations and picture visuals students will experience the mighty Hudson utilizing all their senses.

NOTE: The programs with an * can also be conducted in your classroom

**For booking information contact Director of Education,
Victoria Garufi at (914) 377-1900 ext 12 or email vgarufi@beczak.org.**

Beczak Environmental Education Center

On the riverfront, one block north of the Yonkers Train Station. Parking available.

35 ALEXANDER STREET, YONKERS, NY 10701 914.377.1900 WWW.BECAK.ORG