

2017 SPECIAL OPTIONS

FROST VALLEY YMCA ENVIRONMENTAL EDUCATION CENTER

Claryville, Ulster County, www.frostvalley.org, btillman@frostvalley.org

845-985-2291 Ext. 213

Frost Valley offers 12 science- and water-related programs including pond and stream ecology; wildlife, wilderness, or geology hikes; a Model Forest tour; water quality testing and acid rain study for students from elementary through high school level, and a new offering, "Energy Quest." (*CWC does not pay for Frost Valley's team-building or recreation programs.*)

A three-day, two-night stay ranges from \$159-\$194/person (students and chaperones) and includes room, board, six educational day programs and two evening programs. One-day trip with one or two water- and science-related programs is \$11 per person per program; add \$8 per person for lunch. There are two-day, one-night options (\$133-\$163) as well as longer stays available. Scholarship assistance is available through an application process. Additional evening programs, and service learning opportunities, may be selected. Call for rates.

Also available: One-day Model Forest tour with two related programs to help students understand the relationship between water quality and working forest landscapes: \$22 /person; \$30 with lunch.

NYC schools receiving CWC grants for overnight visits to Frost Valley YMCA that include strong forestry themes and Model Forest tours may automatically receive additional funding from the Watershed Agricultural Council to help pay for travel costs. *See Guidelines/Instructions for details.* For a description of the Model Forest:

<http://frostvalley.org/environmental-science/model-forest/>

THE ASHOKAN CENTER

Olivebridge, Ulster County; www.ashokancenter.org, info@ashokancenter.org

845-657-8333

The Ashokan Center offers immersive, place-based programs that capitalize on its historic 385-acre campus along the famous Esopus Creek and the campus' immediate proximity to the Ashokan Reservoir. From elementary through high school, students come to Ashokan to be outside, in nature, and experiencing the process of science and history. They collect data, record their observations in field journals, and consider questions of environmental conservation and our use of natural resources. Programs include: Water Quality Assessment, Aquatic Ecology, Native Plants & Pollinators, Field Ornithology, Stewardship Service Learning, Forest Ecology, Animal Tracks and Traces, Hike to Cathedral Gorge, 19th Century Writers Cabin, and others. Ashokan programs are aligned with the NYS, Common Core and Next Generation Science standards.

Ashokan offers overnight programs that range in price from \$180 (one night) to \$432 (4 nights) per person including meals, lodging, programs, and nursing services. Evening programs are available for an additional fee.

Day trip prices are \$80-\$100/instructor. Lunch can be purchased for \$10/person. (*CWC does not pay for Ashokan's colonial living history programs.*)

TROUT IN THE CLASSROOM, A PROGRAM OF TROUT UNLIMITED, IN PARTNERSHIP WITH NYC DEP

www.troutintheclassroom.org, lgenovesi@tu.org, 917-832-0857

Raise trout from eggs to fingerlings in a classroom tank, while learning about the NYC watersheds and water supply system. Students monitor fish development and water quality, then plan a trip to a watershed stream to release the trout. A high level of commitment is required all year long, from tank set-up in September through release of trout in the spring. \$1,300 purchases a 55-gallon tank and all the required equipment (chiller, water conditioners, filter, pump from That Pet Place, and optional teaching aids etc.)

Year-long support is available from the NYC and Watersheds TIC Coordinator who coordinates the Fall TIC Teacher Training and trout egg pick-up in October, as well as permits and licenses for spring trout releases. **First-time applicants:** Be sure to fill in the Travel line on the CWC grant budget page to request additional funds to travel to a trout release site in the spring. This project is suitable for students in all grades!

ARM-OF-THE-SEA THEATER

Contact Patrick Wadden, Managing Director; bookings@armofthesea.org 845-246-7873
<https://www.armofthesea.org>

WEST OF HUDSON WATERSHED SCHOOLS ONLY in 2017-18

NYC schools may not apply for in-school shows. Instead, they will be notified of large venue, multi-school NYC performance dates.

Both shows feature hand-painted sets, dozens of mask and puppet characters, and live music. Study guides and post-performance discussion are included with each in-school performance. Space requirements: 35'W X 25'D X 13'H. Please make sure your venue can accommodate these large-scale shows. The floor of a gym or cafeteria generally works best. Arm-of-the-Sea provides all its own equipment, including sound system and lights.

- **City That Drinks The Mountain Sky- Part Two** Arm-of-the-Sea's unique portrayal of New York City's water supply system has been seen by thousands of people in schools and public venues throughout the Watershed and in NYC for 16 years, always to rave reviews. **CITY PART TWO** builds on that success, continuing from where the original production leaves off. It explores life in the Catskills and the challenges of managing the world's largest publically-owned unfiltered water supply system in the world. View short video clip from CITY PART ONE: <https://vimeo.com/16634888>
- **The Rejuvenary River Circus**. A story about the life of a river; an allegory involving a water carrier who travels between Mountain Peaks and the Deep Blue Sea, the creatures he encounters, and the girl who helps restore the River to health. View short video clip: <https://vimeo.com/55090390>

WOH Watershed Schools ONLY: \$1,350 for one show; \$1,650 for two shows at same location

WATER QUALITY TEACHING AIDS

Trouble in Fruitvale

Available from Lab-Aids, Inc. <http://www.lab-aids.com>, 800-381-8003

- Groundwater contamination kit: \$395 (includes teacher's manual)

Explore earth science concepts such as the water cycle, map interpretation, and groundwater pollution in the fictional city of Fruitvale. Students design and carry out a plan for testing water to determine the contamination's source, severity, extent, and rate of travel. The data is used to analyze the risk to Fruitvale's water supply. Students then explore clean-up options and hold a town meeting to decide which option to use. Materials come in a storage box; initial setup enough for use by 35 students.

Enviroscape Models

Available from EnviroScape, www.enviroscapecom.com, learn@enviroscapecom.com, 703-631-8810, x12

- Watershed/Non-Point Source Model: \$795

This unit includes nonpoint source landscape and user's guide. Two waterways flow into a larger water body, which is representative of a lake, river, bay or ocean. The unit comes with a kit containing everything you need to demonstrate the movement of water through a watershed and the pollution that runoff may cause.

- Drinking Water and Wastewater Treatment Model: \$987

This unit shows where drinking water (residential and commercial, rural and urban) comes from and how it is delivered to us; what happens to water and waste after we use it (how sewage/wastewater is treated); and what biosolids are and how they are being used or disposed.

Your grant request should include cost of model(s) plus any accessories and shipping.