



# 2019 WAQUOIT BAY SUMMER SCIENCE SCHOOL



## **Bayside Buddies**

Students entering Grades 2 & 3  
Half-day Program - Cost: \$175  
**July 15-19, 2019** mornings (9am - noon)  
**July 15-19, 2019** afternoons (1pm - 4pm)

## **Estuary Adventurers**

Students entering Grades 4, 5 & 6  
Full-day Program: 9am - 3pm  
Cost \$295  
**June 24-28, 2019**  
**July 29-August 2, 2019**  
**August 12-16, 2019**

## **STEM Adventures**

Students entering Grades 6, 7 & 8  
Full-day Program: 9am - 3pm  
Cost: \$295  
**July 22-26, 2019**

## **Women In Science**

Girls entering Grades 7, 8 & 9  
Full-day Program  
Mon-Wed: 9am - 3pm  
Thursday: 1pm - overnight  
Friday: Pick-up noon  
Cost: \$295  
**July 8-12, 2019**

## **TIDAL Quest**

**Teens Investigating Diversity of Aquatic Life**  
Students entering Grades 9-12  
Full-day Program: 9am - 3pm  
Cost: \$295  
**August 5-9, 2019**

## **Registration**

Register online:

<http://www.waquoitbayreserve.org/wbrf/science-school/>

Space is limited. Scholarships available.

Please contact

[waquoitbayscienceschool@gmail.com](mailto:waquoitbayscienceschool@gmail.com)  
for scholarship or additional information.



# WAQUOIT BAY SCIENCE SCHOOL 2019 SESSION DESCRIPTIONS

## **Bayside Buddies – For students entering grades 2 and 3 (Fall 2019)**

Children will get wet, muddy, and inspired while exploring the habitats and wildlife around Waquoit Bay through games, crafts, and basic scientific investigations. They will learn to identify and observe living and non-living elements of nearby woods, fields, marshes, and waters of the bay, make and record observations, use instruments to record environmental conditions, and learn about the fragile nature of these environments. Children will learn about local plants and wildlife, and practice “collect, observe, and release” procedures to help them become responsible estuary stewards.

## **Estuary Adventurers – For students entering grades 4, 5 and 6 (Fall 2019)**

Young scientists in this program will explore Waquoit Bay Reserve using a variety of instruments, from hydrometers to projecting microscopes. They will conduct investigations based on research projects in the Reserve, monitor ground water, test water quality, observe wildlife, and learn to recognize human impacts to the bay. They will play games to illustrate natural cycles, and get to know the plants, algae, and animals in and around Waquoit Bay. Students will wade in the shallow waters and marsh creeks to find estuary creatures, and dig into studies of rocks, soil, water, and sunlight.

## **STEM Adventures – For students entering grades 6, 7 and 8 (Fall 2019)**

Students will design and create exciting take-home projects using the engineering design process in the classroom lab and in a variety of habitats nearby. They will draw on science, technology, engineering and math (STEM) skills to build, test, and redesign their projects, which will be based on real-life problems and challenges. They will learn about renewable energy and the many ways to capture and harness sun, wind, and water power. Throughout the session, interactive games and water activities will keep the interest level high and the kids cooled down.

## **Women in Science – For girls entering grades 7, 8 and 9 (Fall 2019)**

In this week of hands-on activities, young women will receive inspiration and support as they meet women scientists who will describe their career paths and projects. Students will conduct field research alongside WBNERR staff and visiting scientists, and use a variety of instruments and technologies to gather and record data from the marshes, fields, forests, and waters of Waquoit Bay Reserve. A highlight of this session will be the boat trip to Washburn Island and overnight on Reserve property, where the students will leave their cell phones behind as they explore local ecology and hike the trails. An afternoon lesson on shell fishing and an evening campfire will round out the day and set the stage for them to spend the night with their teachers and classmates. The session is sure to provide plenty of fun, build confidence, and offer a look at potential careers in science, technology, and engineering.

## **TIDAL Quest: Teens Investigating Diversity of Aquatic Life - For students entering grades 9-12 (Fall 2019)**

Do you love science, technology, and figuring out how things work? Join a small team of students spending a week in the field while conducting environmental monitoring projects with Waquoit Bay Reserve scientists. Students will discover the latest technologies used locally to study climate change and sea level rise, monitor wildlife and examine plant communities, and look for ways to solve environmental issues while socializing with other teens and developing questions to investigate. Participation in this session may help determine a career path or boost a college application.

**For information call 508-457-0495 x155 or email: [waquoitbayscienceschool@gmail.com](mailto:waquoitbayscienceschool@gmail.com)**

*(Telephone/email messages are checked weekly during the off season – email communication preferred.)*