



**MarineLab**  
Marine Resources  
Development Foundation

*Adventures  
in Marine Science*

## WHAT'S IN THE WATER?

Level: Grades 7 – 12

Cost Per Student: \$60 (no meals provided)

9:00 AM	Arrival and Facility Orientation
9:30 – 10:30 AM	Water Quality Lab
10:45- 11:45 AM	Invertebrate Behavior
BAG LUNCH BROUGHT FROM HOME	
12:30 – 2:30 PM	Mangrove Ecology Field Trip and Bayside Water Quality Data Sampling
2:45 – 4:00 PM	Microplastics Lab

This is a one-day program with a focus on **WATER QUALITY** that can be adapted for students **Grades 7-12**. On arrival, students will be given a brief orientation of the facility before a water quality lesson. After the lab, students will understand the meaning of five water quality parameters, know how to operate tools to collect these measurements, be able to make sense of the data and connect the importance of the abiotic with the biotic. These are important skills because students will board the boats for a field excursion to FL Bay. On the boats, students will be taught a mangrove ecology lesson and will be testing the water quality at various sites throughout the trip. Students will collect 1 L water samples to be analyzed in the afternoon.

After lunch, students will make sense of the water quality data they collected. Then they will learn about and see firsthand a detrimental human impact on water quality, microplastics. During the microplastics lab, students will filter their water samples to determine the types and abundance of microplastics. All data is submitted to the Florida Microplastics Awareness Project.

AVAILABILITY: November, December, January or February