



MARINELAB FIELD DAY

Let's go snorkeling! This program includes a lab activity on invertebrate diversity, snorkel training and snorkeling in our protected mangrove lagoon, and a field trip on our US Coast Guard out to the coral reefs of the Florida Keys National Marine Sanctuary! Our marine sciences instructors guide and guard your students at every step. Mask, fins, snorkel, and snorkel vest are included.

TIME	ACTIVITY
8:30 AM	Arrive, orientation
9 AM – 10 AM	DISCOVERY: Invertebrate Diversity Students will briefly be introduced to the concept of diversity and how stable diversity is generally indicative of a stable, healthy habitat before getting their hands wet. Students will explore live rock collected from Largo Sound, identifying each invertebrate they find. The lab concludes by staff projecting a sample of every species found for all to see and discuss.
10:15 AM – 11:30AM	Snorkel Orientation, Swim Test, & Mangrove Lagoon Snorkel Students will be introduced to snorkel gear and how to fit and use it, demonstrate their comfort level in the water with their snorkel buddy, and practice snorkeling in our protected mangrove lagoon. Our instructors actively guide and help each and every snorkeler get comfortable and confident in the water!
11:45 – 12:15	Bag lunch from home
12:15 – 2:45 PM	FIELD TRIP: Coral Reef Ecology & Snorkel After a brief introduction to coral reef ecology, students hop aboard our vessels for a one-stop snorkel on the coral reefs of the Florida Keys National Marine Sanctuary. Instructors guide the students in the water at the reef after giving a thorough orientation to where we are going and the exciting marine animals we'll see there!
3:00 PM	Enjoy a freshwater rinse before getting back on the bus for home

MarineLab One Day Programs - MarineLab Field Day Continued

Next Generation Sunshine State Standards Addressed

SC.5.L.15.1: Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.

SC.5.L.17.1: Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.

SC.6.L.15.1: Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.

SC.7.L.17.2: Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.

SC.7.L.17.3: Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.

SC.912.L.17.2: Explain the general distribution of life in aquatic systems as a function of chemistry, geography, light, depth, salinity, and temperature.

SC.912.L.17.4: Describe changes in ecosystems resulting from seasonal variations, climate change and succession.

SC.912.L.17.5: Analyze how population size is determined by births, deaths, immigration, emigration, and limiting factors (biotic and abiotic) that determine carrying capacity.

SC.912.L.17.6: Compare and contrast the relationships among organisms, including predation, parasitism, competition, commensalism, and mutualism.

SC.912.L.17.8: Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non-native species