



## **Krazy Kelp Lab**

Virtual and Onsite Experience

Goal: Increase in knowledge of marine organism adaptations and the impact of keystone species in sustain a healthy ecosystem.

Objective: Examine the species and ecosystem dynamics with a Giant Kelp Forest through experimentation and observation

### **Rotation Timing**

Introduction – 5 minutes

Station (1,2,3) – 15 minutes each

Conclusion – 5 minutes

\*Please note all times are approximate

The program design of the ***Krazy Kelp Lab*** will introduce students to scientific principles, natural systems, and environmental occurrences with a Giant Kelp forest. The students will be engaged with hands-on, inquiry-based activities that will address key concepts, such as anatomical structures and functions, adaptations, and marine food webs. Our instructors will facilitate each station's content through the 5 E's framework. The stations are connected to Next Generation Science Standards for 3<sup>rd</sup> Grade through Middle School.

### **Activity Station Overview**

#### **Kelp Anatomy and Dissection**

Students will observe and participate in the dissection of Giant Kelp. They will understand the structure and functions of the external anatomy of the plant.

#### **Echinoderm Adaptations**

Students will see examples 3 echinoderms. They will identify and determine the role of the various unique adaptations for these organisms.

#### **Marine Plankton Identification**

Students will view a plankton sample collected off the California coast. They will identify the various species of both phyto and zooplankton. They will assess the overall biodiversity and biomass to determine current conditions in the ocean.