



## **Krazy Kelp Virtual Lab Information Guide**

Dear participating teachers,

Greetings from the San Diego County Office of Education's Science Outreach Team! We are looking forward to connecting with you live from our Virtual Learning Space for the ***Krazy Kelp Lab***. Please familiarize yourself with the information detailed in this document. This will ensure an optimal experience before and during the program.

Whether you have participated before or if this is your first program, we hope that that the experience will be academically enriching, relevant, and memorable for your students. Please ensure that you complete a program evaluation. Your feedback will help us continue to provide quality programming for students throughout San Diego County.

### **Please review the list below**

1. Please submit the Program Schedule no later than 10 business days after SDCOE staff confirm your program date. [scienceoutreach@sdcoe.net](mailto:scienceoutreach@sdcoe.net)
2. There are activities and PowerPoints that will prepare your students for the program. They cover key concepts and vocabulary that are integral parts of the program content.
3. The program will be conducted from inside our Virtual Learning Space. We ask that your students are located in a space on campus, which can remain undisturbed during each session.
4. Please plan to connect and have your students ready no later than five minutes before the start of your session. Program sessions are approximately 60 minutes.
5. A maximum of four sessions per day. Please set the schedule with at least 10 minutes between classes. The first session may start no earlier than 8:00am.
6. Your students do not need to be divided into three groups. Our instructor will progress through each station with the entire class.
7. Have your students ready to interact with the instructor. During the facilitation of the activities, our staff will be asking questions. Please have yourself or another staff available to assist in selecting the students to answer the questions and monitoring student behavior. Station worksheets are available for the students to complete along with the instructor.
8. Please complete and submit the Program Receipt no later than two business days after the program. [scienceoutreach@sdcoe.net](mailto:scienceoutreach@sdcoe.net)

The program design of the ***Krazy Kelp Virtual 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.

Please call (858) 290-5986 or email [scienceoutreach@sdcoe.net](mailto:scienceoutreach@sdcoe.net) if you have any questions. We are looking forward to connecting with you soon!

SDCOE's Science Outreach Team