Krazy Kelp Onsite Lab Information Guide

Dear participating teachers,

Greetings from the San Diego County Office of Education's Science Outreach Team! We are looking forward to visiting your school site 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 modify this amazing program for students throughout San Diego County.

Please review the list below

1. Please submit the Program Schedule and Logistics documents no later than 10 business days after SDCOE staff confirm your program date. 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 activities must take place in an indoor location (multipurpose room, gym, etc.). Ensure that the location is large enough to accommodate three 10x10 spaces for the activity stations.

4. Our staff will be arriving in a standard cargo van. We request close access to the program location. This can be a dedicated parking spot in the main lot or a place inside the campus. SDCOE vehicles cannot be driven over curbs, grass, gravel, mud, dirt or other uneven surfaces to reach the program location. Our staff reserves the right to refuse to travel or park over any surface deemed unsafe.

5. SDCOE staff will need to have access to a projector, screen, water source, and sink.

6. Inform all relevant school site personnel of the program date/schedule/location and our onsite requirements (access to a sink, unlocking of gates, etc.).

7. There is a maximum of 30 students for each one-hour session. Program sessions are approximately 60 minutes. A maximum of four sessions per visit to a school site. Please set the schedule with at least 10 minutes between classes. The first session may start no earlier than 8:00am.

8. Arrive at the program location no later than five minutes before the start of your session.

9. Ensure that your students have nametags on before their arrival to the program.

10. Divide your class into three groups.

11. Our staff will adhere to the most current SDCOE COVID prevention guidelines while onsite. This will include: remaining fully masked during the duration of their time on campus, using hand sanitizer and disinfecting program resources between class sessions, and maintaining proper distance from students, volunteers, and staff. At the discretion of the Program Manager, our staff will also comply with specific school/districts requirements. This must be presented and determined with the Program Manager prior the program date.

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 3rd 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 if you have any questions. We are looking forward to connecting with you soon!

SDCOE's Science Outreach Team