

SYLLABUS

8TH Grade Ocean Leader

Bridge Course



COURSE OBJECTIVES



Students will...

- **BELIEVE:**
 - they can recognize and do science, and that science is important;
 - challenges can be opportunities to learn and grow, rather than permanent obstacles;
 - science, in its many forms, has relevance for their lives; and
 - that they can make a difference.
- **ACHIEVE:**
 - improved understanding of scientific concepts and the scientific process; and
 - positive academic performance
- **LEAD:**
 - by taking the necessary steps to pursue and obtain a career in STEM;
 - by taking opportunities to use science to make a difference; and
 - participating as servant leaders and mentors.

COURSE LOCATION



San Diego, California

COURSE SCHEDULE OF TOPICS & ACTIVITIES



San Diego, CA

Thursday, July 1, 5:00p-6:00p- Launch Night

- Learn more about the high school pathway of an Ocean Leader
- Students receive supplies for program, last minute reminders and team announcements

July 12th - July 23rd: Program Days in San Diego (9am – 2pm)

- Students will investigate marine biology, meet scientists, and conduct hands-on science at the Living Lab and coast

July 23rd: Family Celebration at the Living Lab

TYPICAL DAY IN SAN DIEGO



Start Time	End Time	Activity
8:45AM	9:00AM	Arrive
9:00AM	9:45AM	Community Building
9:45AM	12:15PM	Science Labs
12:15PM	12:30PM	Chores
12:30PM	1:00PM	Lunch
1:00 PM	2:00 PM	PEN Reflection



Program Timeline for the Ocean Leader Bridge Program

Date	Science Labs (9:45am-12:15pm)	Tools for Success (TFS) (1:00pm – 2:00pm)
7/12	<i>Meet Your Ocean Discovery Family</i> Ocean Leader Challenge	Reflection: Introduction
7/13	<i>Meet Your Ocean Discovery Home</i> Living Lab Tour & Scavenger Hunt	Reflection: Writing
7/14	<i>What are Invertebrates?</i> Field Trip to the Tidepools	Reflection: Writing
7/15	<i>Invertebrate Adaptations</i> Invertebrate Experiment	Reflection: Writing
7/16	<i>Invertebrate Conservation</i> Local Canyon Restoration	Reflection: Writing
7/17	<i>What are Fishes?</i> Dissection of Bony Fish and Sharks	Reflection: Writing
7/18	<i>Fish Adaptations</i> Field Trip to Birch Aquarium	Reflection: Writing
7/19	<i>Fish Conservation</i> Field Trip to Living Coast Discovery Center	Reflection: Final Reflection
7/20	<i>What are Marine Mammals?</i> Investigate Marine Mammals	Reflection: Peer Review
7/21	<i>Marine Mammal Adaptations</i> Discover Marine Mammal Adaptations	Reflection: Final Editing
7/22	<i>Marine Mammal Conservation</i> DNA & Biodiversity	Reflection: Review of Edits
7/23	<i>Practical Exam</i> Final Preparations for Practical	Reflection: Practice Reading