

Treasure Island Sailing Center: Sailing to Save the Sea



Program Dates: Oct. 10th - 11th and
10/18th, 23rd and 24th, 2019

Teacher: Sheryl Carrillo

Class Size: 31

School: Longfellow Elementary School

SF Unified School District



Growing life-long, joyful learners!

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Day One: Introduction to Watershed & Water Pollution

Day one was dedicated to introducing key ideas about the local waterways in the Bay Area and how pollutants can enter the watershed and contaminate our rivers, lakes, and oceans.

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Day Two: Collecting Water Quality Data

Students spent day two taking water quality samples and recording data

1

Water & Air Temperature



Students recorded average ocean temperatures to be 61 degrees and air temperatures at 70 degrees.

2

Salinity



Getting at eye level to read the hydrometer is essential to get an accurate reading. Our class average was 26 ppt..

3

Oxygen



The class average was 6 ppm for dissolved oxygen, students learn about sources of oxygen in marine ecosystems.

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Day Three: Beach Clean Up & Marine Debris Data Collection

On day three, students collected and categorized trash from Clipper Cove. Then uploaded their data to NOAA's Marine Debris Tracker.



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Day Four: Food Webs



The class explores local marine life, drawing transfer of energy in the ecosystem.

Students learn about interconnected food webs and impacts of biomagnification.



Students participated in a lab activity about ocean acidification. They use vinegar as a simulation for future oceans, which is harmful for sea creatures with shells.

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Day Five: Culminating Project and Call to Action



On day five, students created thoughtful and moving poster campaigns dedicated to drawing public awareness to the dangers of marine debris and plastics. Posters were placed in the school's cafeteria for raise awareness among the student population.