

Treasure Island Sailing Center: Sailing to Save the Sea



Program Dates: Oct. 21, 23-25 and
30th, 2019

Teacher: Joanna Maderazo

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 62 degrees and air temperatures at 73 degrees.

2

Recording Data



During class demonstration on dissolved oxygen, student observations were recorded in field journals.

3

Salinity



Students measured salinity as 26 ppt using a hydrometer.

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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. The students presented posters to their classmates and reflected on the impacts of pollution on wildlife.