

# Treasure Island Sailing Center: Sailing to Save the Sea



Program Dates: Nov. 4th - 8th, 2019

Teacher: Arpine Sogomonyan

Class Size: 23

School: **Frank McCoppin**

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 | pH



The average pH measurement of Clipper Cove was 7, which students later identify as a neutral pH.

### 2 | Water & Air Temperature



Students recorded average ocean temperatures to be 60 degrees and air temperatures at 67 degrees.

### 3 | Oxygen



Students learn about sources of oxygen and the marine life respiration. As a class, they make observations on oxygen saturation.

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## Day Three: Shore 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.