

Treasure Island Sailing Center: Sailing to Save the Sea



Program Dates: Sept. 23-30, 2019

Teacher: Leo Warshaw-Cardozo

Class Size: 19

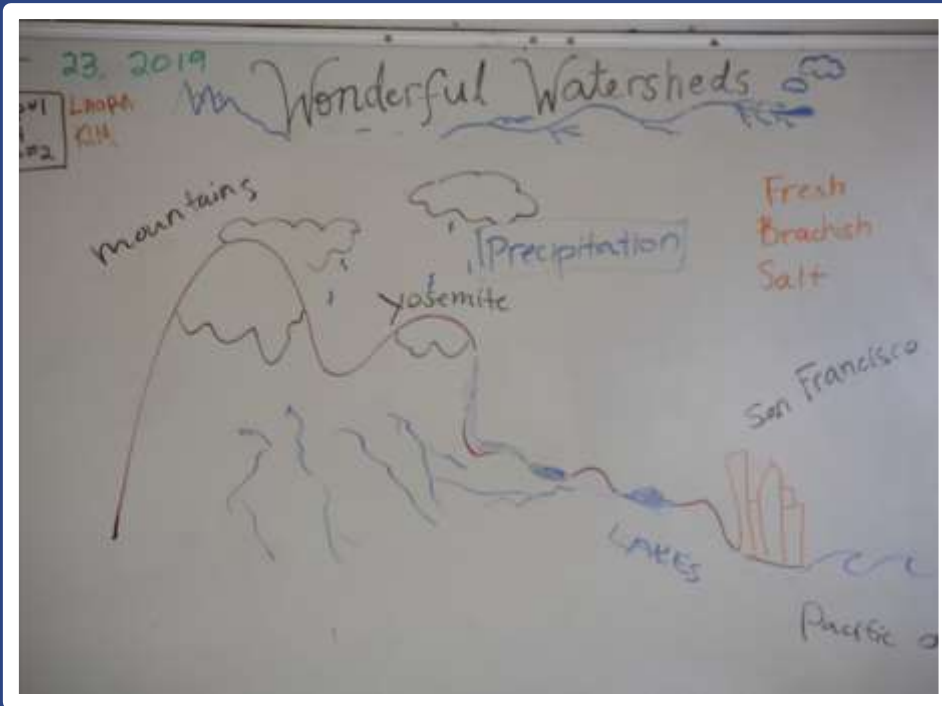
School: Longfellow Elementary School

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 60 degrees and air temperatures at 80 degrees.

2 | Salinity



Students found salinity averages to be 32ppt on a sunny Tuesday.

3 | Oxygen

The class average was 8 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

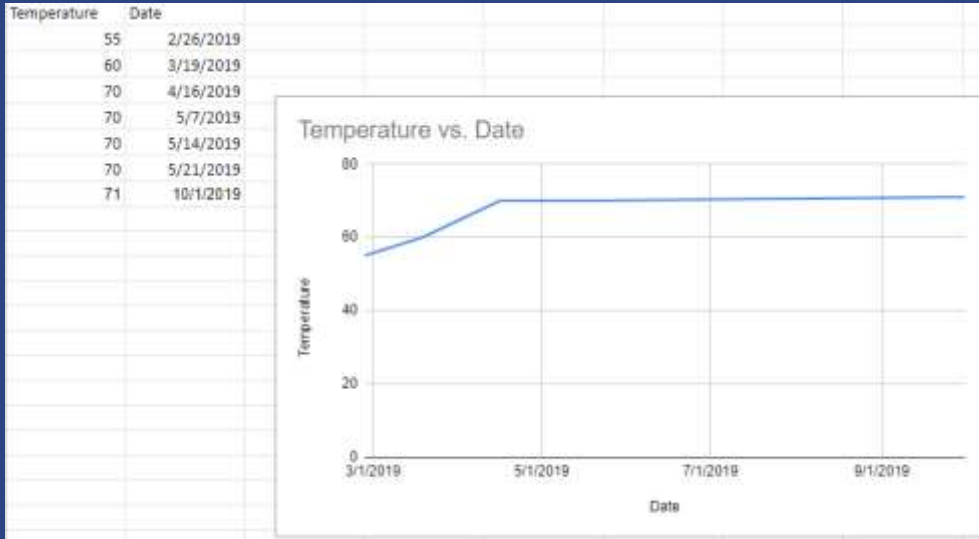


On day three, students collected and categorized trash from Clipper Cove. Their data was uploaded to NOAA's Marine Debris Tracker.



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Day Four: Making Climate Predictions



Students used their collected water quality data to find class averages for Clipper Cove. They graph the data to help visualize seasonal changes in air, water temperature, and salinity.



The class 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 will be placed in the school's cafeteria to raise awareness among the student population.