

Treasure Island Sailing Center: Sailing to Save the Sea



Program Dates: May 6-10, 2019

Teacher: Alan Worman

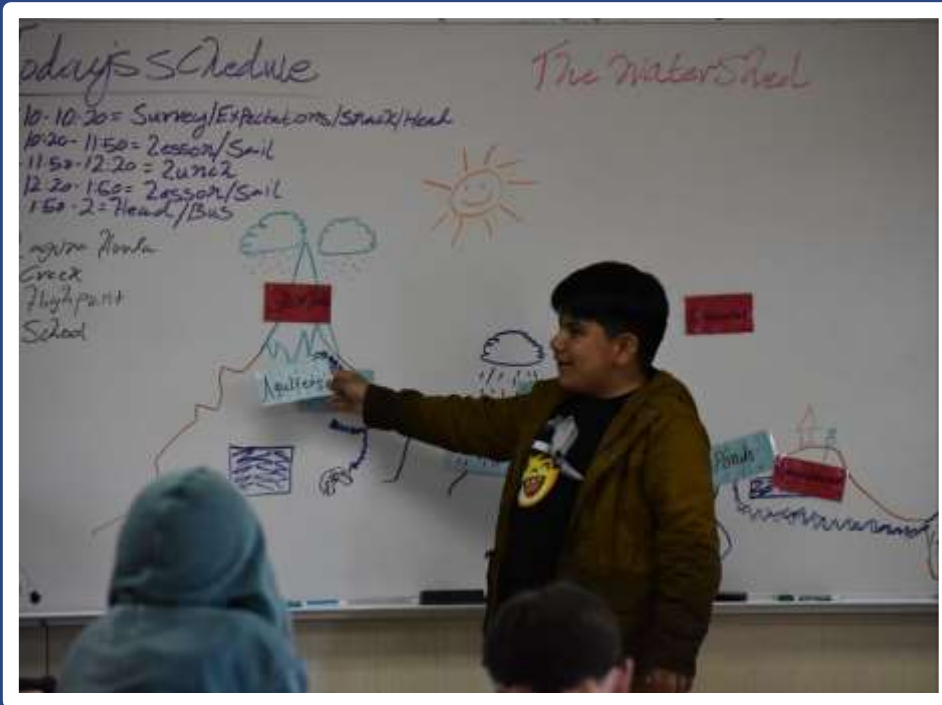
Class Size: 25

School: **Glen Park Elementary School**

SF Unified School District



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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 70 degrees.

2

Salinity



Students found salinity averages to be 32 PPT on Tuesday.

3

Turbidity

Students observed ocean water clarity until approximately four feet.



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Day Three: Beach Clean Up & Marine Debris Data Collection

On day three, students collected and categorized trash from Clipper Cove.
Total Pounds Collected: 14

	Boat One	Boat Two	Boat Three
Group One	8 plastic caps 10 sml piece plastic 5 lrg foam 4 food wrappers 10 sml foam	1 straw 5 food wrappers 1 large foam 2 bottle caps 17 sml plastic 3 lrg pieces plastic	2 plastic caps 2 straws 3 sml pieces plastic 2 lrg pieces plastic 4 cigarette butts
Group Two	2 plastic bag 4 food wrapper 3 plastic caps 1 clothing 2 sml piece plastic 1 lrg piece plastic	2 plastic bags 1 straw 2 plastic cups 13 cigarette butts 1 plastic utensil 1 plastic bottle	1 plastic bag 1 straw 8 plastic cups 15 lrg piece plastic 1 plastic cups 1 zip tie

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Day Four: Data Reflection

On day four, students discussed their findings from day one and three and how their data adds to the larger scientific body of knowledge on the health of our waterways. Students also discussed how the trash they found on day three finds its way to open oceans by means of gyres. Ocean gyres and the coriolis effect were tested using an in-class science experiment.

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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 to raise awareness among the student population.