

Treasure Island Sailing Center

# Sailing to Save the Sea:



Program Dates:  
March 18-21, 2019

Teacher: Arpine  
Sogomonyan

Class Size: 32

School: Frank McCoppin Elementary  
SF Unified School District

Frank McCoppin Elementary School



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## Day One: Collecting Water Quality Data

Students spent day one taking water quality samples and recording data

1

### Water & Air Temperature



Students recorded average ocean temperatures to be 55 degrees and air temperatures at 60 degrees.

2

### Salinity



Students found salinity averages to be 19 PPT on a sunny Monday.

3

### Turbidity

Students observed ocean water clarity until approximately five feet.



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## Day Two: Introduction to Watershed & Water Pollution

Day Two 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 Three: Beach Clean Up & Marine Debris Data Collection



On day three, students collected and categorized trash from Clipper Cove.  
**Total Pounds Collected: 15**  
 (not including the cone :))

	Boat One	Boat Two	Boat Three
Group One	12 plastic caps 1 sml piece plastic 1 coffee lid 1 straw 1 plastic bag	1 straw 5 food wrappers 1 five-gallon bucket 4 bottle caps, 7 sml pieces plastic 2 lrg pieces plastic	2 plastic caps 2 straws 3 sml pieces plastic 2 lrg pieces plastic 1 construction cone
Group Two	1 plastic bag 1 food wrapper 3 plastic caps 1 plastic tape 2 sml piece plastic 1 lrg piece plastic	2 plastic bags 1 straw 2 plastic cups 2 sunglasses 1 plastic utensil 1 plastic bottle	1 plastic bag 1 straw 8 plastic cups 1 lrg piece plastic 1 foam cup 6 tampons

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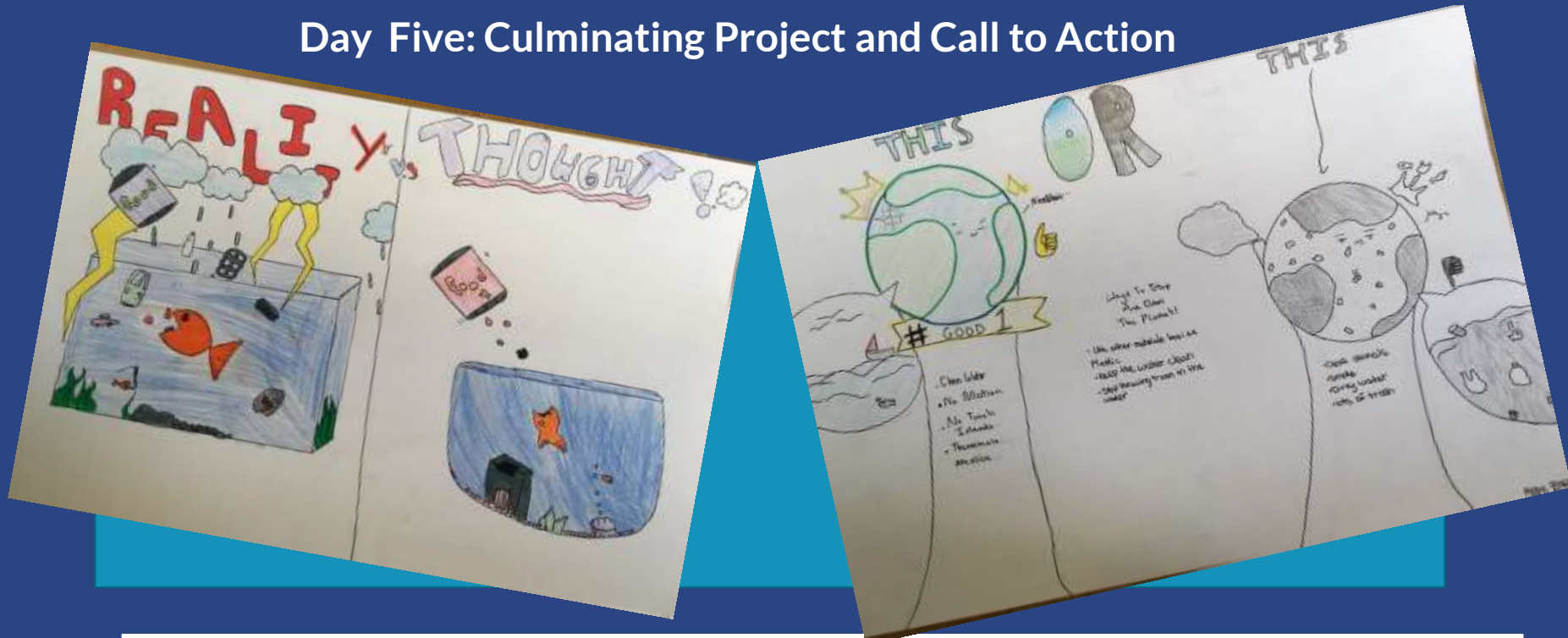
## Day Four: Data Reflection

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 for raise awareness among the student population.

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## Thank you from Frank McCoppin Elementary 5th Graders

