

Project Oceanology

Grade 7 Field Trip

Groton, CT

October 22 and 23, 2022



Purpose

To provide a real world science experience that supports the Grade 7 science curriculum of...

Chemistry

Earth Science / Geology

Ecology

Student Presenters

Team 7

Ashley Hodgkins

Sean Pomponi

Joseph Tofil

Team 7/8

Mia Wood

Thomas Erickson

Bow of the Boat (Joe)

- We learned about the water chemistry, and that good water chemistry allows the organisms to be healthy
- We tested the pH, the dissolved oxygen, salinity, and how far the light can penetrate the water.
- Based on the results, we came to the conclusion that the water quality was good.
- I had the opportunity to go up to the bridge and talk with the Captain.
 - we looked at charts
 - measured wind speed
 - look at the weather and clouds

Bow of the Boat





Stern of the Boat (Sean and Thomas)

We used a net and caught lots of fish. Unfortunately some fish died when they were in the net, still we learned that they would be put back in the water and still apart of the food chain

Sean

We measured fish

We held the fish,

The types of fish we saw were summer and winter flounder, sea bass, butterfish, porgy, puffer fish, moon fish, squid, and crab.

Tommy

Plankton net (top of water) and drag net (on the ocean floor)

Used a identification guide to identity fish,

To look at the fish and compare them to the identification guide, we would put fish into a container so we could look at them and they could still breathe.

Stern of the Boat



Stern of the Boat



Stern of the Boat





Stern of the Boat



Plankton Lab (Ashley)

Some plankton turn into other sea animals. Some plankton stay plankton their whole lives .

phytoplankton - plant like

zooplankton - animal like

Looked at plankton caught on the boat through microscope and identified them

Learned plankton need to stay close to the top of water to get sunlight and food they need.

Engineering Challenge: Designed a plankton - the goal was to be the last one to sink to the ground.

Plankt





Crab Habitat Lab (Mia)

- Asian Green Crabs are a invasive species
- We used these crabs to study which environment crabs prefer
- Seaweed was most preferred by the crabs
- One of the crabs was very indecisive
- Could seaweed be the most preferred because the crabs can hide from predators?



Crab Habitat Lab



We got to see a Submarine!



Thank you for the Coach Buses

Lots of space, comfortable

Got to watch a movie

Had foot rests

Window shades

And got to experience a bus bathroom