

WHQ IS OLIVIA?



Hi! I am Olivia, and I am an oceanographer! As an oceanographer, I study the ocean. I learn about marine animals, ocean water, and the ocean floor. There are many types of oceanographers. Some learn about endangered animals and where they live. Other oceanographers study how pollution, like plastic, chemicals, and garbage, affects the water. My job is to study the ocean floor. I look at how pollution changes the plants and sea life that live near the bottom of the ocean. When a lot of garbage gets in one area of the ocean floor, plants, such as seaweed, start to die. Sea animals can also get tangled in garbage and injure themselves.

WHAT AM I DOING TODAY?

Today, I am using a submersible (an underwater vehicle) to explore the ocean floor. I am excited to see if the pollution we cleaned up last month has helped the coral reef. We will measure seaweed to see if it is growing and try to find some tiny sea life hiding there.



Did you know that small fish can hide from their predators in the seaweed? We hope to capture some photos of fish and other sea animals now that the trash has been removed from that area.



What is a Submersible?

A submersible is a vehicle that can go very deep under water. The submersible we use does not have a human inside of it. The goal of a submersible is to learn about deep parts of the ocean that are difficult or dangerous for humans to get to by themselves. The submersible will take photos and videos of what life is like deep in the ocean. A submersible can also collect samples so we can test them in a lab!

Check out these photos from the recent submersible trip to the bottom of the Pacific Ocean! Can you believe that last photo is of a shark?









IT'S YOUR TURN

Design a new submersible for a trip to the bottom of the ocean! Draw your design in the box below and label each part of your submersible with the numbers listed.

Your submersible must:

- 1. Have a place to store pieces of seaweed and other plants that are collected.
- 2. Have a way to photograph animals who are hidden in dark areas.
- 3. Have a way for submersible to communicate with scientists at the marine lab and show them what the submersible sees.
- 4. Have one other cool feature that will grab large pieces of trash like a piece of a sunken boat (just in case we find something down there).

Draw your submersible design below:	