

# NOAA Captain and Marine Biologist Interview Sessions

Fourth Grade

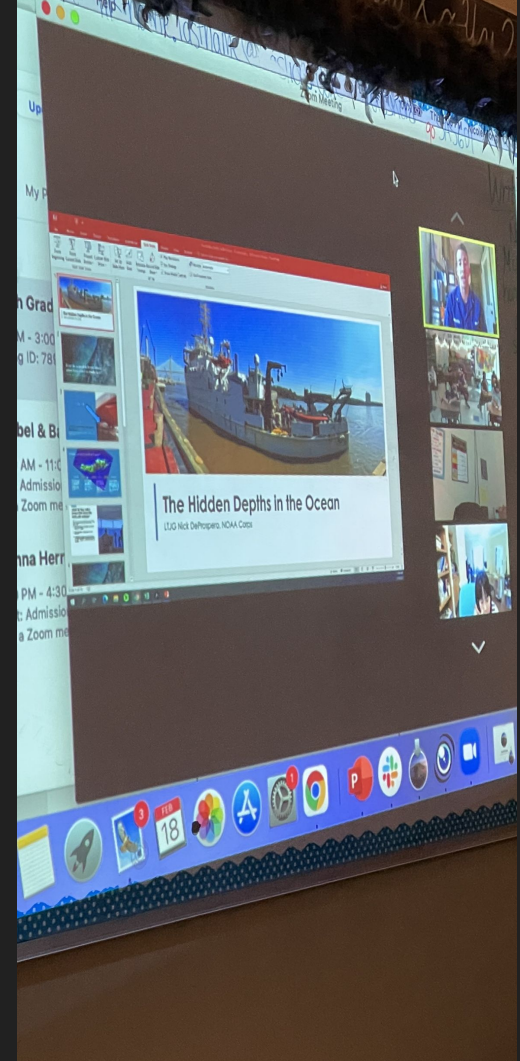
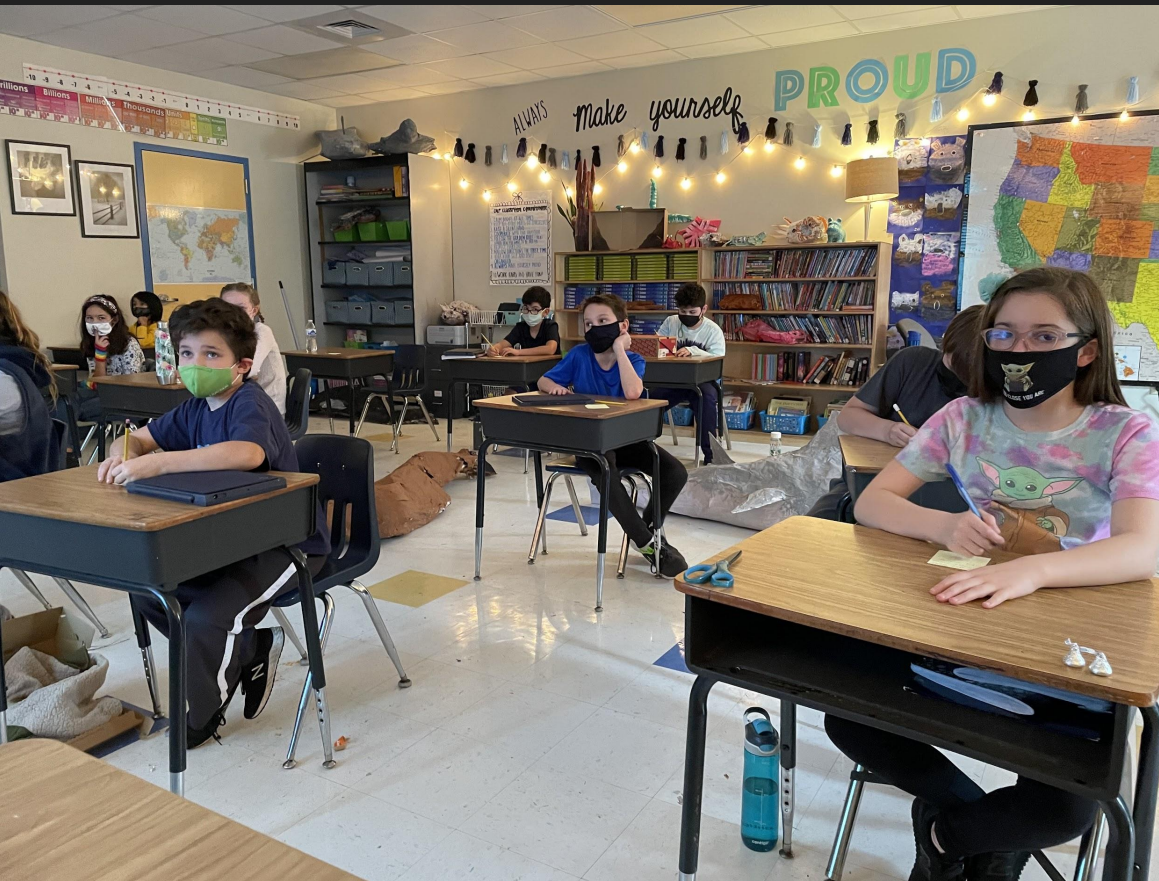
Students had the opportunity to speak with two Marine experts on their professions and exploration of our oceans. During these two zoom sessions, we had the opportunity to speak with Nick DeProspero and Kim Richardson who both worked on the Research Ship “The Nancy Foster.” We learned so much about exploration of different ocean depths, the study of sounds within our ocean and even about our very own coral reef off of the coast of Georgia, Grays Reef!

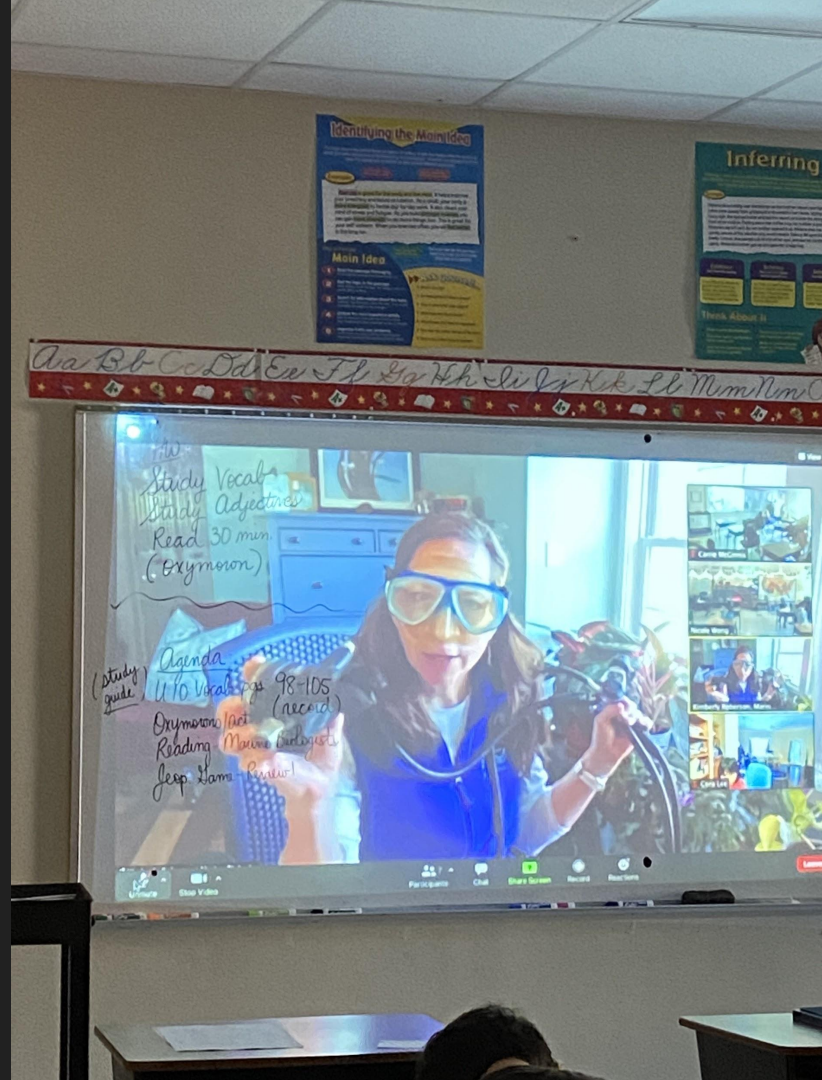
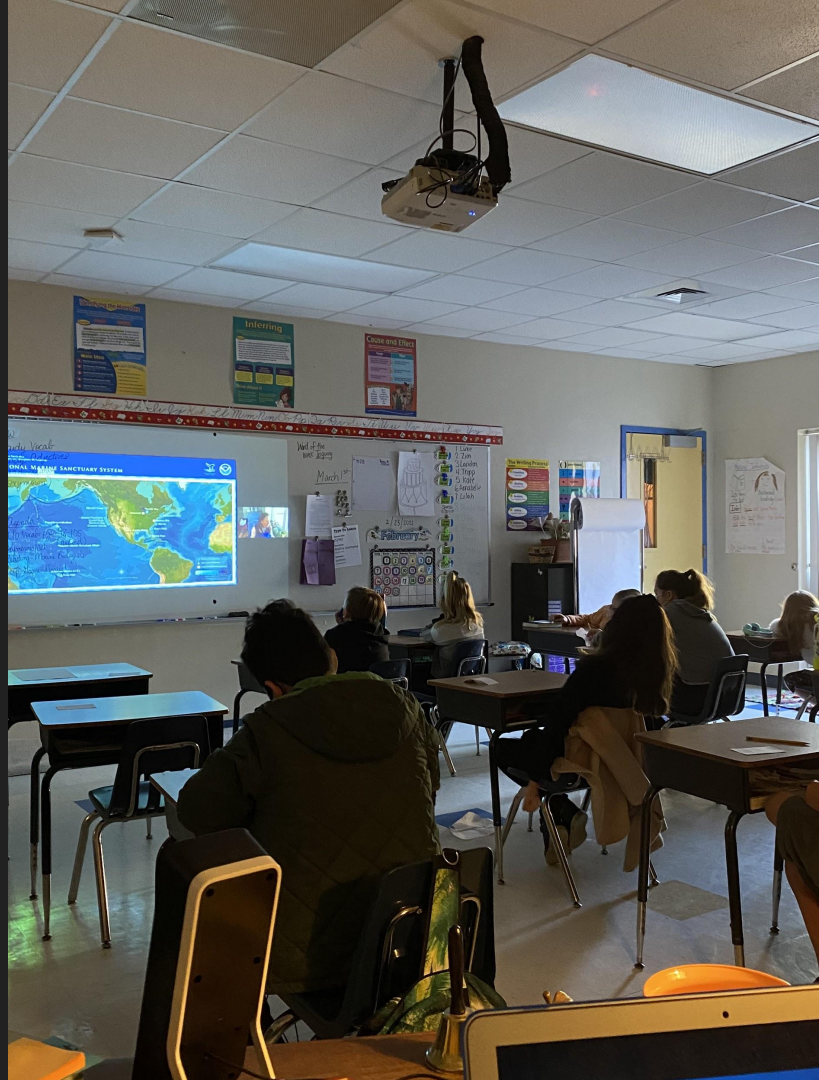


# How do scientists learn about what they can't actually see?

They have multiple ways to find out! Let's explore.







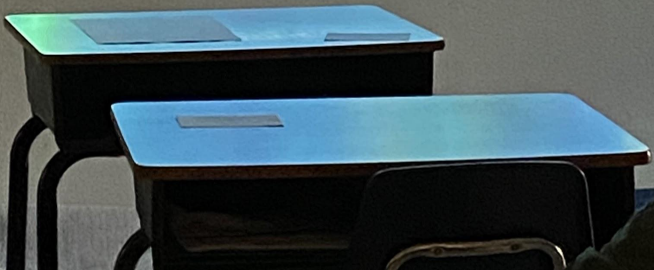
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W  
Study Vocab  
Adjectives

NATIONAL MARINE SANCTUARY SYSTEM

(Exymision)

Agenda  
 U 70 Vocab page 98-105  
 Synonyms/Act (mixed)  
 Reading - Marine Biologists  
 Lexi Game - Review



## It sure can! But how does it work?

Transducer!

This is a fancy name for a **sound maker**. It is a machine placed on the bottom or pulled behind or beside the boat. It can make multiple sounds.

Waves!

Not the waves you surf at a beach, but **sound waves**. By changing the length of each wave, scientists can get better images of the ocean floor.

Receiver!

This is a device that **catches the sound**. Sound waves move through water better than other waves. Once the wave hits a solid object, like a wreck, on the ocean floor, it bounces back to the receiver.

Computers!

Now that the receiver grabbed the sound wave, a computer shows us what the sound wave saw. It can tell how deep each sound wave went by how quickly it comes back. Then it can paint us a picture of the bottom.

