

Life with Marine Science: Tracking Live Marine Animals

Work in Progress

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Projects

- ◆ Option 1 - Full Electronic Portfolio Assignment

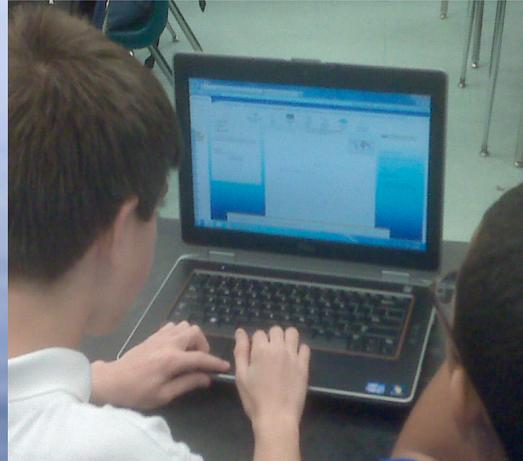
 - 26 - 7th graders

 - 24 - 6th graders

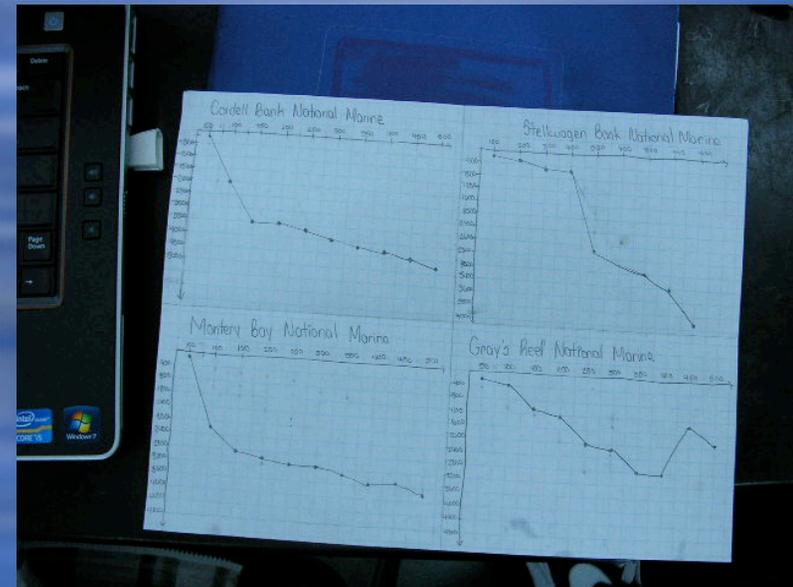
Students completed animal tracking unit. All students were divided into teams of eight and subdivided into teams of two. With the use of Edmodo and Signals of Spring/Aces the students successfully tracked five marine animals.

 - ◆ Katya - Olive Ridley Turtle (West Africa)
 - ◆ Jacki - Green Sea Turtle (Florida Keys)
 - ◆ Hipc200 - False Killer Whale (Hawaiian Islands)
 - ◆ Hipc272 - False Killer Whale (Hawaiian Islands)
 - ◆ Darwinia - Leatherback Sea Turtle (West Africa)

Student Work and Display

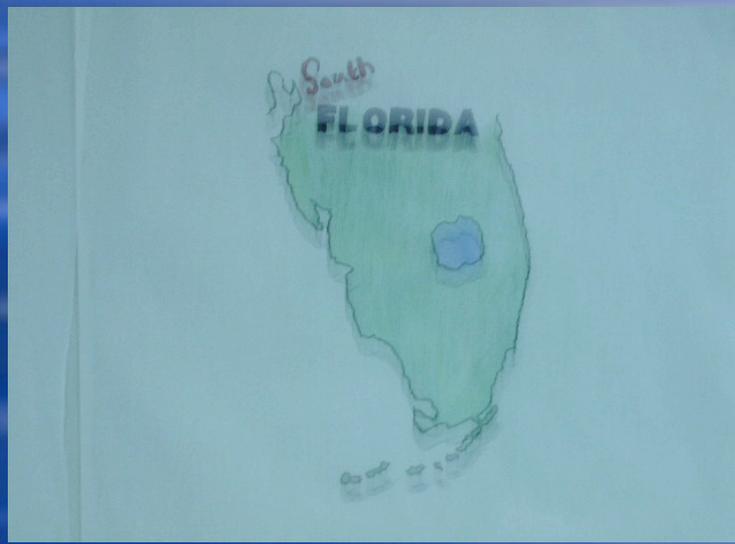
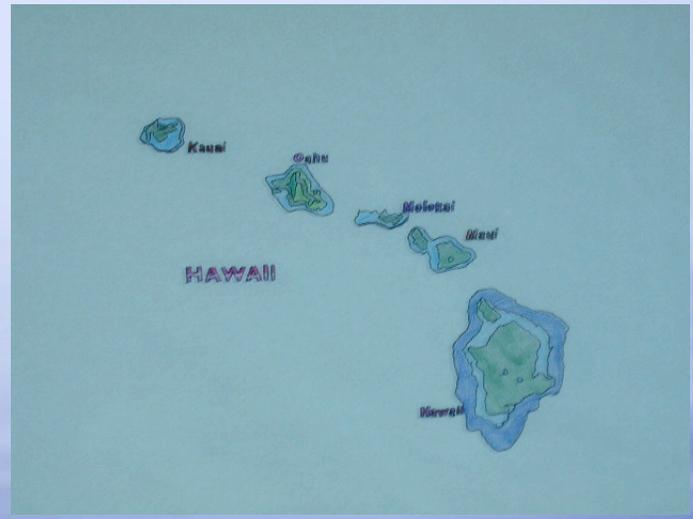


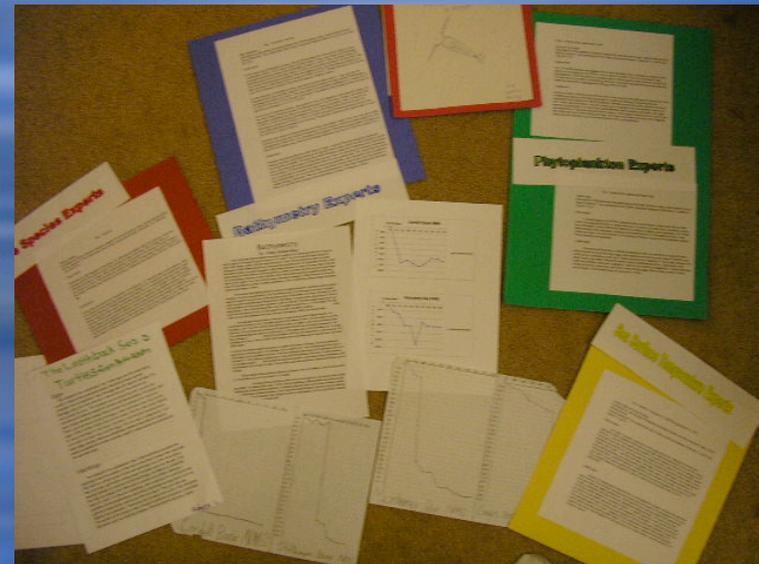
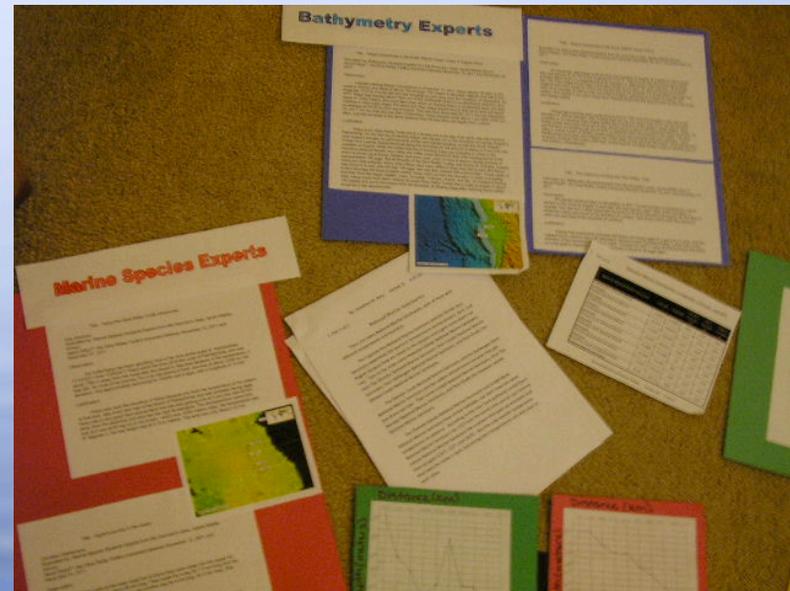
Name of National Marine Sanctuary	Latitude	Longitude	January Average SST	April Average SST	August Average SST
Fagatele Bay National Marine Sanctuary	-14.854	-170.097	30C ^o	31C ^o	27C ^o
Florida Keys National Marine Sanctuary	24.571	278.972	25C ^o	25C ^o	32C ^o
Cordell Bank National Marine Sanctuary	37.954	236.699	12C ^o	12C ^o	12C ^o
The Monitor National Marine Sanctuary	35.024	284.814	18C ^o	18C ^o	28C ^o
Olympic Coast National Marine Sanctuary	47.989	-125.004	7C ^o	12C ^o	16C ^o
Stellwagen Bank National Marine Sanctuary	42.399	-70.299	8C ^o	3C ^o	15C ^o
Channel Islands National Marine Sanctuary	34.044	-120.313	15C ^o	12C ^o	16C ^o
Hawaiian Islands Humpback Whale National Marine Sanctuary	20.04	-156.79	25C ^o	19C ^o	25C ^o



NAME: _____
 DATE: _____
 TOPIC: _____
 PAGE: _____
 CLASS: _____

Life Stage and our care work	Habitat	Food	Survival	Reproduction
Egg (Hatched) 	They swim with their heads above water and their tails tucked under. They are born with their eyes closed. They stay in the water until they are 2 weeks old, then they can fly.	They eat algae and seaweed. At 2 weeks old, they start to eat small fish. They will eat anything that is small enough to fit in their mouths.	They must be able to swim, dive, and fly. They must also be able to find food and avoid predators.	Adults lay eggs in the water. The eggs are small and round. They are laid in a cluster.
Juvenile (1-3 years) 	They live in shallow reefs. They have holes in their heads that let them breathe. They can stay underwater for 20 minutes.	They eat small fish, crustaceans, and seaweed. They also eat algae and other things that are small enough to fit in their mouths.	They must be able to swim, dive, and fly. They must also be able to find food and avoid predators.	A female bird can lay 1-3 eggs at a time.
Adult (4-10 years) 	They live in shallow reefs. They have holes in their heads that let them breathe. They can stay underwater for 20 minutes.	They eat small fish, crustaceans, and seaweed. They also eat algae and other things that are small enough to fit in their mouths.	They must be able to swim, dive, and fly. They must also be able to find food and avoid predators.	A female bird can lay 1-3 eggs at a time.





Signals of Spring - ACES



A collection of informational cards and documents pinned to the wall. The cards are organized into several color-coded groups:

- Blue Group:** Includes a card titled "Management Systems" and another titled "Water Quality Standards".
- Red Group:** Includes a card titled "Water Quality Standards".
- Yellow Group:** Includes a card titled "Water Quality Standards".
- Green Group:** Includes a card titled "Water Quality Standards" and another titled "Water Quality Standards".
- White Group:** Includes a card titled "Water Quality Standards" and another titled "Water Quality Standards".

Other items include:

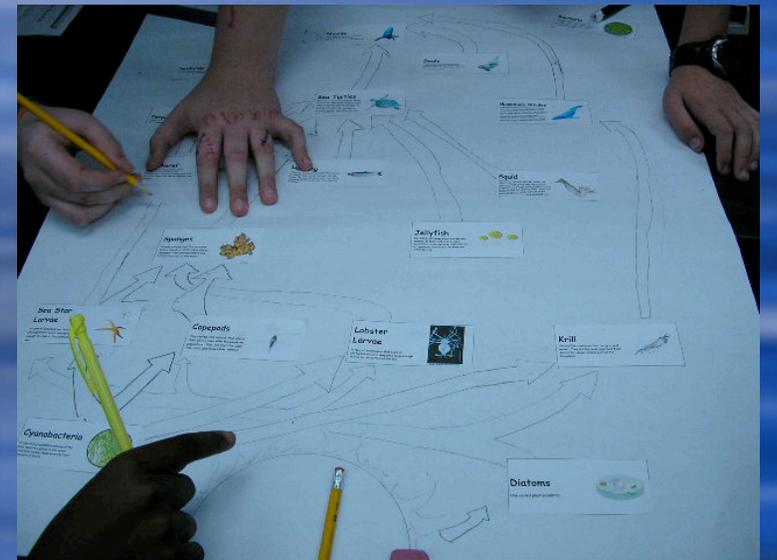
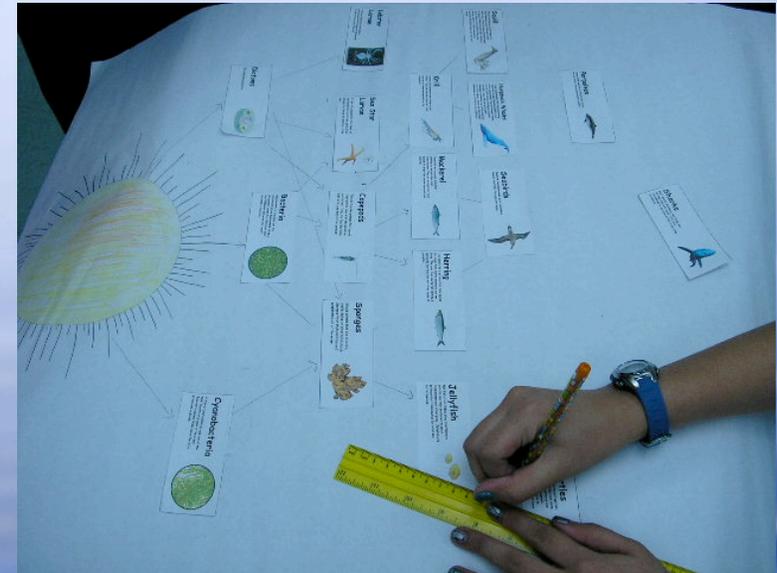
- A map of Hawaii with the word "HAWAII" written below it.
- A map of Florida with the word "FLORIDA" written above it.
- A globe icon.
- Several smaller white cards with text and small images.



Option 9 - Tracking Marine Animals Lesson Plan (2)

- ◆ Both 6th and 7th grade are currently studying Ecology and Earth's Spheres.
 - ◆ 7th grade science class is learning about ecosystems, food webs, predator /prey relationships, etc.
 - ◆ I focused their science lesson on marine animals instead of land based animals.
 - ◆ Students created marine food webs and learned how the flow of energy from the sun reaching all the way to the top of the food chain.
 - ◆ 6th grade science class is learning about the interaction of Earth's spheres.
 - ◆ Since we were working with the marine tracking, I decided to have my students to build eco-columns. This hands on project allows them to understand the interaction between the spheres.
 - ◆ The eco-system/column illustrates the relationship among biotic and abiotic factors. A small version of Earth. Using a separate column they will learn how acid rain, pollution and other environmental factors affect their system and our oceans as a whole.
 - ◆ Students keep a journal and record their observations, make measurements, etc.

7th graders working on the marine food webs



We have already set up the aquarium portion of the eco-column

