

Pre-Visit/Post-Visit Guide

Lesson Name: Southeastern Seashore Explorations

Summary of Lesson:

Students will discover the complex and interactive relationships involved in an aquatic ecosystem. They will experience the biotic (living) and abiotic (non-living) components of ocean organisms by exploring our live Animal Touch Tanks and through hands-on experiences. They will apply this knowledge as they analyze the flow of energy through the ecosystem, with an emphasis on changes to food chains and food webs.

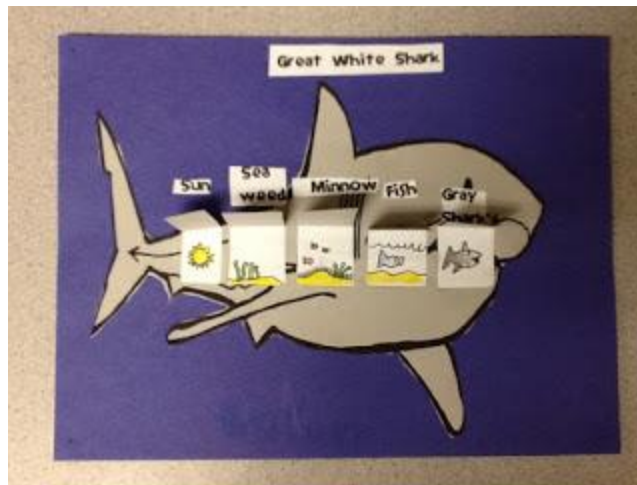
South Carolina Science Standards: 5.L.4A

Pre-Visit Resources

- **Teacher/Chaperone Expectations:** Please help us by letting us know of any special accommodations for your children prior to the lesson. Your assistance with classroom management and distribution of materials will also be greatly appreciated.
- **Instruction for Teachers:**
 - Please report to the Harrison Hall of Science for this lesson. Students will work in small groups to rotate through animal stations. Students will have time to wash their hands at the end of the lesson.
- **Key Vocabulary:** abiotic factor, biotic factor, predator, prey, food chain, food web, energy flow, estuary, producer, consumer
- **Key Questions Addressed in Lesson:** What animals might one encounter in a marine ecosystem? How is energy transferred in a marine ecosystem? What would a typical marine food web look like?
- **Content Preview Video:**
 - "Ocean Food chain and Food Webs-Friends with Fins" (2:27)
https://www.youtube.com/watch?v=ES_749Hw3D4

Post-Visit Resources:

- **Writing Prompt:** Create an illustrated poem, comic strip, or descriptive narrative featuring the abiotic and biotic factors of a marine ecosystem. Include common predator and prey relationships in a food chain.
- **Possible Lesson Link:**
 - Illustrated Ocean Food Chain <http://awordfromthird.blogspot.com/2017/02/food-chain-activity.html>



- Step on it! A life-sized food web <https://thesciencepenguin.com/2016/01/3206.html>
- **Video Link:**
 - National Geographic presents "Plankton Revealed" (6:50) <https://www.nationalgeographic.org/media/plankton-revealed/>
- **Career Connections:**
 - National Geographic presents "What It Means to Be a Marine Biologist" (1:15) <https://www.youtube.com/watch?v=BbVASV30vVc>
 - "When your job is saving the ocean" (4:02) <https://www.youtube.com/watch?v=B-dv0B0g1c>
 - BBC Earth Unplugged presents "How do you become a marine biologist?" (4:38) <https://www.youtube.com/watch?v=qggwuL07JtI>