



Ocean Motion

Driftwood Education Center



Class Description:

Explore the world of marine vertebrates and invertebrates in our lab. Students will be able to handle such animals as crabs, sea anemones, shrimp and molluscs in our touch tank. An in depth study of these animals and their adaptations will be supplemented by a group fish or crab dissection.

**Appropriate for all grade levels
Can tailor most classes to High School Students**

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Ocean Motion

Table of contents and outline:

I. Introduction, overview, and assessment

1. What is a phylum? How do we classify animals?
2. Do animals have similar characteristics?
3. Identification and observation.

II. Main Objectives

1. Explore the different tanks and animals!
2. Present your phylum to class!
3. Dissect a fish/shark and compare it to humans!

III. Conclusions and Wrap-up

1. How are vertebrates or inverts (crab and fish) similar to humans?
2. Why is it important to understand animals and classification?

Florida Performance Standards met

5th Grade: SC.G.1.2 The student understands the competitive, interdependent, cyclic nature of living things in the environment.

6th – 8th Grade: SC.F.1.3 The student describes patterns of structure and function in living things.

Concepts:

Focal points of this class are:

1. Classification and identification are the first step to understanding.
2. Animals have special adaptations that make them unique and help them survive in their environment.
3. There is usually one distinguishing characteristic that determines an animal's phylum.

Outcomes:

Upon completion of this class, students will be able to:

1. Understand why dissections are important, and develop a curiosity towards creatures of the sea.
2. Learn to identify animals based on multiple characteristics, adaptations, and information.
3. Learn how to handle, touch, and observe live vertebrates and invertebrates.

Georgia Performance Standards met

5th Grade:

1. **S5CS1.** Students will be aware of the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.
2. **S5CS8.** Students will understand important features of the process of scientific inquiry.

6th Grade:

1. **S6CS2:** Students will use standard safety practices for all classroom laboratory and field investigations.

7th Grade & 8th Grade:

1. **S7L1.** Students will investigate the diversity of living organisms and how they can be compared scientifically.
2. **S7L5.** Students will examine the evolution of living organisms through inherited characteristics that promote survival of organisms and the survival of successive generations of their offspring.

S. Carolina Performance Standards met

5th Grade: Inquiry IB1 Compare, sort, and group concrete objects according to two attributes.

6th Grade: Same as 5th Grade

7th Grade: Life Science 1C Living systems at all levels of organization demonstrate the complementary nature of structure and function.

8th Grade: Life Science IA1. Observe, describe, and examine the diversity of organisms over time including differences and similarities based on kingdoms, phyla, classes.