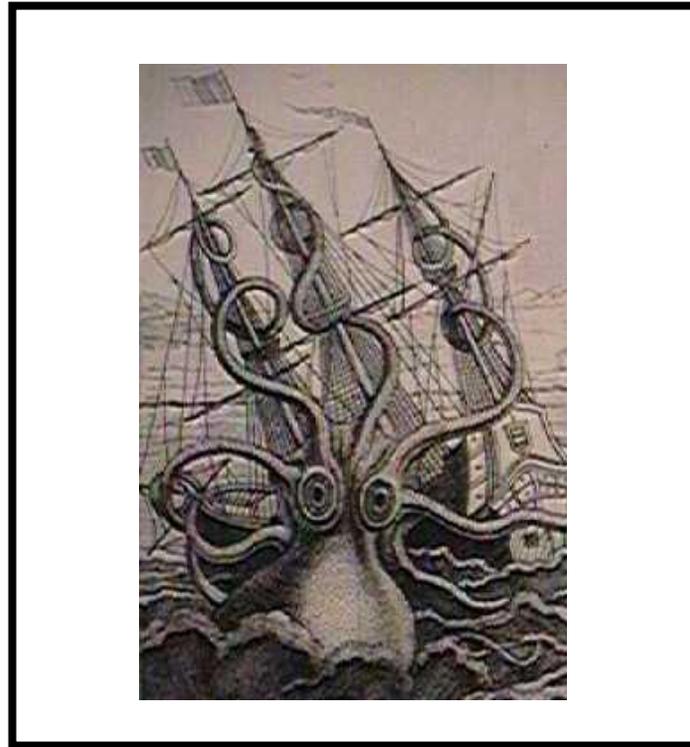




Got Ink?

2016- Driftwood Education Center



Class Description:

Squid are known as one of the most intelligent and intriguing invertebrates in the marine world. By doing a small group dissection, and participating in a teacher led discussion, students will be taken on a journey of discovery while learning what makes this mollusc unique.

**- Appropriate for all grade levels –
Class is done in a large group setting**

This class can be used as a comparative dissection for high school students

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Got Ink

I. Pre-class set-up (15 min)

1. Discuss with other instructors if you would like to have a fun theme for the class (i.e.; Karate Squid, Gilligan's Island) and prepare.
2. Check to make sure that you have all available materials needed: squid, dry erase board, stand, trays, newspaper, and scissors.
3. Arrange trays and newspaper for students, allowing three students per tray.
4. Set up tables and chairs.

II. Introduction, overview, and assessment (15 min)

1. Introduce class by reviewing expectations.
2. Give overview of what is going to happen in today's class.
3. Ask students to list examples of invertebrates.
4. Discuss briefly some of the taxonomic listing.

III. Main Objectives: Dissecting Squid (60 min)

1. External Anatomy.
2. Internal Anatomy.

IV. Conclusions and Wrap-up (15 min)

1. Importance of Squid-research, food, ecosystem.
2. Clean up.
3. Serve up the squid.

V. Clean Up

VI. Additional Information and help

1. Anatomy diagram of squid.
2. Recipe for calamari.

Florida Standards met

5th

SC.5.L.14.2 Compare and contrast the function of organs and other physical structures of plants and animals, including humans, for example: some animals have skeletons for support -- some with internal skeletons others with exoskeletons -- while some plants have stems for support.

SC.5.L.17.1 Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.

Concepts:

Focal points of this class are:

1. Through dissection and investigation we can learn more about animals and ourselves.
2. Adaptations allow an animal to survive in its environment.

Outcomes:

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

1. Compare the anatomy of a squid to human anatomy and explain differences and similarities.
2. List adaptations that help a squid survive.

Georgia Performance Standards met

5th

S5L1. Obtain, evaluate, and communicate information to group organisms using scientific classification procedures.

7th

S7L1. Obtain, evaluate, and communicate information to investigate the diversity of living organisms and how they can be compared scientifically..

S7L2. Obtain, evaluate, and communicate information to describe how cell structures, cells, tissues, organs, and organ systems interact to maintain the basic needs of organisms.

Next Generation Science Standards

4th

4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction. Middle School

MS-LS1-4. Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.

S. Carolina Standards met

4th

4.L.5: The student will demonstrate an understanding of how the structural characteristics and traits of plants and animals allow them to survive, grow, and reproduce.

5th

5.L.4: The student will demonstrate an understanding of relationships among biotic and abiotic factors within terrestrial and aquatic ecosystems.

6th

6.L.4: The student will demonstrate an understanding of how scientists classify organisms and how the structures, processes, behaviors, and adaptations of animals allow them to survive.

7th

7.L.3: The student will demonstrate an understanding of how the levels of organization within organisms support the essential functions of life.