

Clam Dissection Lab

Oceanography

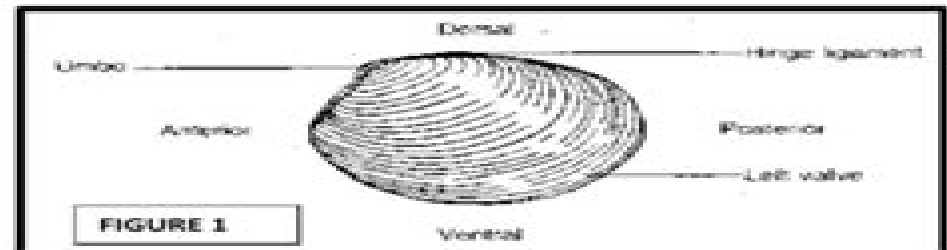
Ms. Sockaci

Use notes, class discussion, and your textbook (pages 124-130) to help you answer questions.

Background: Mollusks live in many diverse parts of the earth and though they share similar characteristics they have taken on many diverse forms. From an evolutionary line that began over 600 million years ago there are over 100,000 different species of mollusks today.

Purpose: To examine the internal and external anatomy of the clam and explore animal diversity within phylum Mollusca.

Materials: Dissecting pan, dissecting tools, clam specimen, lab sheet



Part One: External

1. Place a clam in a dissecting tray and identify the anterior and posterior ends of the clam as well as the dorsal, ventral, and lateral surfaces. See Figure 1.
2. Locate the umbo, the bump at the anterior end of the valve. This is the oldest part of the clam. Find the hinge ligament that hinges the valves together and observe the growth rings.
3. To open the clam, turn the clam with its dorsal side down and pry the two valves open by carefully inserting the forceps. Carefully work the tip between the valves and twist.
4. Pry the valves apart so they are about a centimeter apart. Locate the adductor muscles (use your notebook diagrams as a reference). With your blade pointing toward the dorsal edge, slide your scalpel between the upper valve and the top tissue layer. Cut through the anterior adductor muscle, cutting as close to the shell as possible. Repeat and cut the posterior adductor muscle.
5. Bend the left valve back so it lies flat in the tray.
6. Draw the external structure of the clam and identify the dorsal, ventral, anterior, posterior, umbo and hinge ligament.
7. What is the texture of the clam shell?
8. Take the following measurements:
 - a. Length from the anterior to posterior sides (cm)
 - b. Width from the dorsal to the ventral sides (cm)
 - c. Weight in grams
9. How difficult would it be to open the shell using just your hands?
10. Make one additional observation about the external feel, sight, or smell of the clam.

Part Two: Internal

Refer to your clam diagram to label and color (pg. 127 in your textbook).

11. Label the mantle tissue that lines both valves. Color it purple.
12. Label the mouth and intestine and color that digestive system yellow.
13. Label the muscular foot. Color it brown.
14. Label the anterior and posterior adductor muscles. Color them orange.
15. Label the gonad region. Color them blue.
16. Label the incurrent and excurrent siphons. Color them red.
17. Label the anus. Color it pink.

Clam Dissection Questions Lab Key

Rosina Ehmann



Clam Dissection Questions Lab Key:

Ocean beaches and life in the surf zone James A. Kolb,1996 *Investing Biology* Pearson Education,2002-11

Biological Investigations Lab Manual Warren Dolphin,David Vleck,Linda Westgate,James Colbert,2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology **Designing**

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The Science Teacher ,1993 SCC Library has 1964 cur articles about nature *The Software Encyclopedia* ,1988 **Nature Magazine** ,1955 An illustrated monthly with popular articles about nature *School Library Journal* ,1991 Molecular Biology of the Cell ,2002 MBC online publishes papers that describe and interpret results of original research concerning the molecular aspects of cell structure and function

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