

Clam Dissection Lab

Oceanography

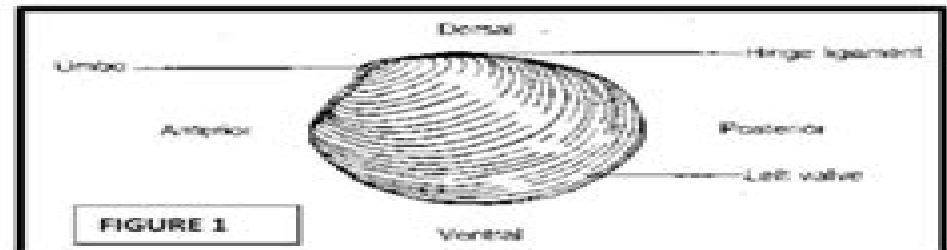
Ms. Sockaci

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.

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