

Marine Biology Lab: Clam Dissection

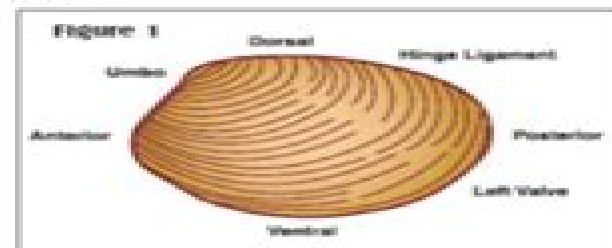
Background: Mollusks live in many diverse parts of the earth and though they share similar characteristics they have taken on many diverse forms. From an evolutionary line that began over 600 million years ago there are over 100,000 different species of mollusks today. They include snails and slugs (class Gastropoda), clams and oysters (Class Bivalvia), and squid and octopus (class Cephalopoda).

Purpose: To examine the internal and external anatomy of the clam.

Materials: Dissecting pan, dissecting tools, safety glasses, preserved clam

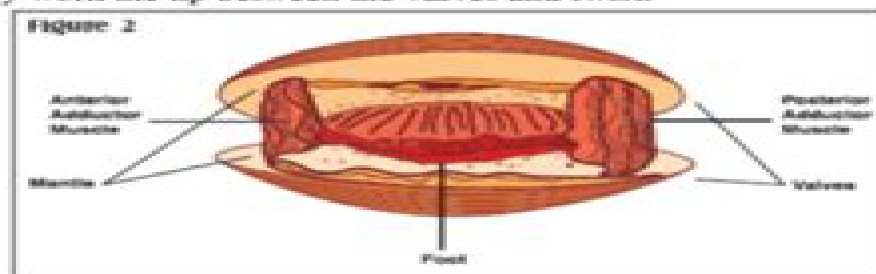
Procedure:

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.



Opening the Clam

3. 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 as in Figure 2. 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.



Observations of the External Structure of the Clam

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 – _____

Clam Dissection Answers

Augusta Foote Arnold



Clam Dissection Answers:

Annotated Instructor's Edition for Investigating Biology Judith Giles Morgan, 1999 **The Living Ocean Teacher's Guide**, *Investigating Biology* Judith Giles Morgan, M. Eloise Brown Carter, 1999 An undergraduate lab manual containing 27 lab exercises designed to encourage students to ask questions pose hypotheses and make predications before they begin lab work Students are required to synthesize results from observations and experiments draw conclusions apply results to new problems and to design their own investigations Scientific writing is emphasized throughout Includes appendices on scientific writing chi square test and terminology and techniques for dissection as well as a section of color photos This edition contains a new lab on cellular respiration and several labs are modified based on new evidence in molecular biology Wire spiral binding Annotation copyrighted by Book News Inc Portland OR Ocean beaches and life in the surf zone James A. Kolb, 1996 **Biology** Christian Liberty Press, Robert Glotzhaber, 2005-05-11 Teacher's Guide to accompany Biology A Search for Order in Complexity This teacher's guide will equip instructors to lead their students through the various experiments that are featured in the student laboratory manual A Dissection Guide, Field and Laboratory Manual for the Introduced Bivalve *Corbicula Fluminea* Joseph C. Britton, Brian Morton, 1982 **Investing Biology** Pearson Education, 2002-11 **Marine Biology** Lorraine Conway, 1982 This offers students a basic understanding of marine life through the use of twelve identification activities several puzzles experiments and other various fun filled challenging projects **Biology** Kenneth Raymond Miller, Joseph S. Levine, 1995 **Cultural Materialism** Marvin Harris, 2001-08-28 Cultural Materialism published in 1979 was Marvin Harris's first full length explication of the theory with which his work has been associated While Harris has developed and modified some of his ideas over the past two decades generations of professors have looked to this volume as the essential starting point for explaining the science of culture to students Now available again after a hiatus this edition of Cultural Materialism contains the complete text of the original book plus a new introduction by Orna and Allen Johnson that updates his ideas and examines the impact that the book and theory have had on anthropological theorizing **Parade of Life** Pearson Education Canada, Prentice Hall (School Division), 1993 **Beginning in the Watershed** James A. Kolb, 1996 **Creative Biology Teaching** Delma E. Harding, 1969 **The Sea-beach at Ebb-tide: A Guide to the Study of the Seaweeds and the Lower Animal Life Found Between Tide-marks** Augusta Foote Arnold, 2020-09-28 **Teaching for the Two-Sided Mind** Linda V Williams, 1986-05-15 A guide to Right Brain Left Brain education **The Handy Anatomy Answer Book** Patricia Barnes-Svarney, Thomas E. Svarney, 2016-01-18 Two established science writers and researchers distill and present the latest and most important information on anatomy and physiology in an easy to use question and answer approach We all have one The human body But do we really know all of its parts and how they work The Handy Anatomy Answer Book is the key to unlocking this door to a wondrous world Learn how the body heals wounds Untangle the mysteries of eyesight Discover how cells organize

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