

Marine Biology Lab: Clam Dissection

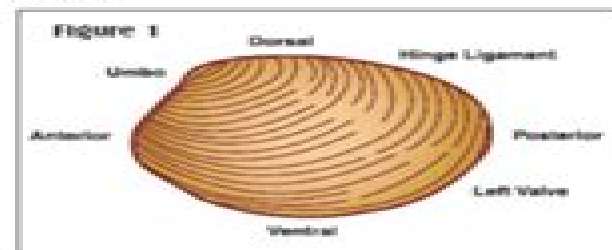
Background: Mollusks live in many diverse parts of the earth and though they share similar characteristics they have taken on many diverse forms. From an evolutionary line that began over 600 million years ago there are over 100,000 different species of mollusks today. They include snails and slugs (class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

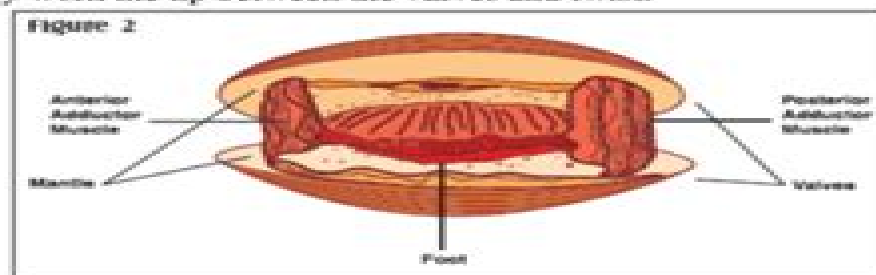
Procedure:

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 calm 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 Pre Lab Answers

CH Cherryholmes

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Table of Contents Clam Dissection Pre Lab Answers

1. Understanding the eBook Clam Dissection Pre Lab Answers
 - The Rise of Digital Reading Clam Dissection Pre Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Clam Dissection Pre Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Clam Dissection Pre Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Clam Dissection Pre Lab Answers
 - Personalized Recommendations
 - Clam Dissection Pre Lab Answers User Reviews and Ratings
 - Clam Dissection Pre Lab Answers and Bestseller Lists
5. Accessing Clam Dissection Pre Lab Answers Free and Paid eBooks
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 - Clam Dissection Pre Lab Answers Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Clam Dissection Pre Lab Answers
 - Highlighting and Note-Taking Clam Dissection Pre Lab Answers
 - Interactive Elements Clam Dissection Pre Lab Answers
- 8. Staying Engaged with Clam Dissection Pre Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Clam Dissection Pre Lab Answers
- 9. Balancing eBooks and Physical Books Clam Dissection Pre Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Clam Dissection Pre Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Clam Dissection Pre Lab Answers
 - Setting Reading Goals Clam Dissection Pre Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Clam Dissection Pre Lab Answers
 - Fact-Checking eBook Content of Clam Dissection Pre Lab Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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