

Clam Dissection

Introduction

The phylum Mollusca includes snails, clams, chitons, slugs, limpets, octopi, and squid. As mollusks develop from a fertilized egg to an adult, most pass through a larval stage called the trocophore. The trocophore is a ciliated, free-swimming stage. Mollusks also have a radula or file-like organ for feeding, a mantle that may secrete a shell, and a muscular foot for locomotion. Clams are marine mollusks with two valves or shells. Like all mollusks, a clam has a mantle which surrounds its soft body. It also has a muscular foot which enables the clam to burrow itself in mud or sand. The soft tissue above the foot is called the visceral mass and contains the clam's body organs.

Taxonomy

Kingdom - **Animalia**

Phylum - **Mollusca**

Class - **Bivalvia or Pelecypoda**

Objective

To study the internal and external anatomy of a bivalve mollusk.

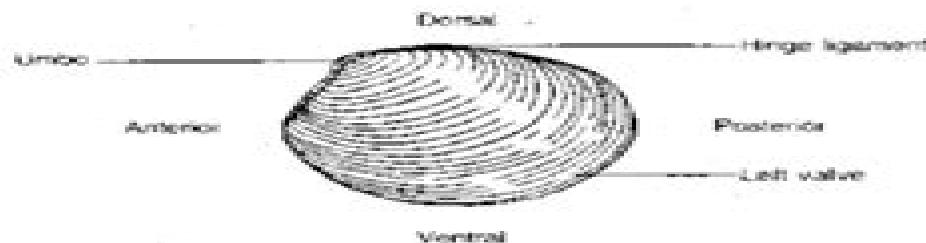
Materials

Dissecting pan, dissecting kit, screwdriver, lab apron, plastic gloves, safety glasses, preserved clam

Procedure

1. Put on your safety glasses and plastic gloves.
2. Place a clam in a dissecting tray and identify the **anterior** and **posterior** ends of the clam as well as the **dorsal, ventral, & lateral surfaces**.

Figure 1

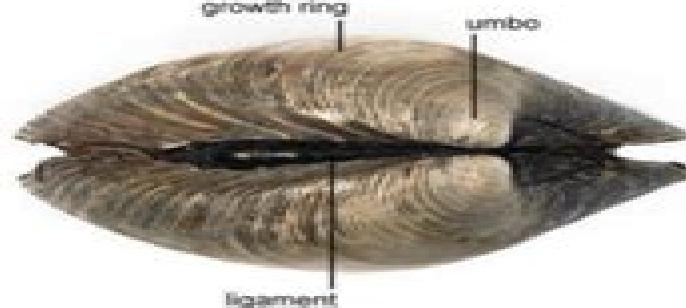


3. Locate the **umbo**, the bump at the anterior end of the valve. This is the oldest part of the clam shell. Find the **hinge ligament** which hinges the valves together and observe the **growth rings**.

Clam - External Features



Clam - External Features



Biology Clam Dissection Answer Key

Ian Pickup

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