

## Lab: Clam Dissection – Class Bivalvia

### Purpose:

To examine the internal structure of a Bivalve.

### Procedure / Observations:

1. To open the clam, slide a scalpel in between the two halves of the shell & cut the adductor muscles (anterior & posterior). Remove the left shell and cut the mantle away from the shell. (If you still have trouble, cut the dorsal hinge).
2. **Draw** a diagram of the clam with the shell removed. **Label** the following parts:
  - Anterior adductor muscle
  - Posterior adductor muscle
  - Foot (anterior end)
  - Gill
  - Mantle
  - Shell
  - Incurrent siphon (posterior end)
  - Excurrent siphon (posterior end)
  - Dorsal hinge
3. Using your textbook, or the poster, **draw** a diagram & **label** the following parts:
  - Stomach
  - Intestine
  - Heart
  - Foot
  - Shell
  - Gill
4. Explain the **function** of the:
  - Foot
  - Gill
  - Shell
  - Adductor muscles (anterior & posterior)
  - Incurrent siphon
  - Excurrent siphon
  - Mantle
5. Explain the process of filter feeding in bivalves.
6. Explain the ecological roles of all mollusks (in general).
7. How can mollusks, such as bivalves, affect humans?