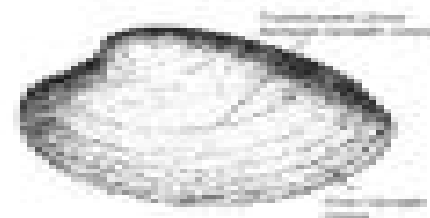


CLAM PHYSIOLOGY AND ANATOMY

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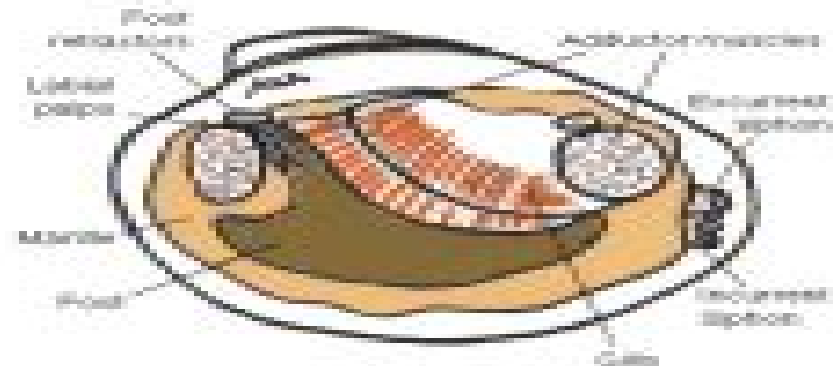
A clam lives between two shells, or valves. The shell is made up of calcium carbonate that the clam secretes. The thickness and toughness of this shell give the animal its other common name, the hard-shell clam. A **hinge**, made up of interlocking teeth, forms the joint between the shells. The tough, but pliable **ligament** holds the two valves together. At the top of the hinge, the **umbo**, is the oldest section of the shell.



Internal

The clam uses **adductor muscles** to close the shell. In doing this to avoid predators, and also if water conditions are not good. The large, muscular **foot** can reach outside the shell so that the clam can burrow.

Water comes into the siphon through the **incurrent siphon** and leaves through the **excurrent siphon**. Together, these siphons make up what we call the "neck" of the clam. The clam sits buried in sediment, and sticks the siphons up into the water above so that it can suck in and spit out water. The water that the clam sucks in through the incurrent siphon contains oxygen and food (plankton). The water that the clam spits out through the excurrent siphon contains the animal's wastes.



The **mantle** is the part of the animal that forms the shell. The mantle secretes calcium carbonate, the compound that we see as the hard substance that makes up seashells.

The siphon's **gills** serve several important functions: obtaining oxygen and getting food. The gills have tiny, hair-like structures on them called **cilia**. By waving the cilia, the clam can create a current that moves water through its body. The gills also move food through

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