

27.1 Mollusks

What are mollusks?

Slugs, snails, and animals that once lived in shells in the ocean or beach

What is the phylum name for mollusks?

Mollusca

Where do most species live?

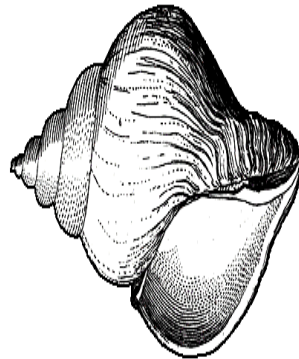
Ocean

How are they divided into classes?

One-shelled, two-shelled, and no shell.

What are some general characteristics of Mollusks?

bilateral symmetry, a coelom two body openings, a foot, and a mantle.



What is a mantle?

A thin membrane that surrounds the internal organs of the mollusk. It secretes the shell.

Describe the function of the radula?

A tongue-like organ with rows of teeth used to drill, scrape, grate, or cut food.

Do all mollusks have radulas?

No, some are filter-feeders (bi-valves)

27.1 (cont.)

How do most mollusks reproduce?

Sexually

What kind of fertilization is characteristic of Mollusks?

External

What are hermaphrodites?

Organisms that produce both eggs and sperm.

What does the larva stage of mollusks look like?

A spinning top with cilia.
(pg. 744)

What kind of heart do mollusks have?

3-chambered

What kind of circulatory system do most Mollusks have?

open

What common respiratory structure do Mollusks share?

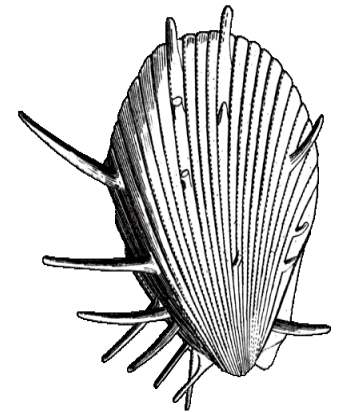
gills

What are nephridia?

Excretory organs that remove metabolic wastes from an animal's body.

How many classes of Mollusks are there?

7



27.1 (cont.)

What are the 3 most common classes of Mollusks?

Gastropoda, Bivalvia, and Cephalopoda

What is the largest class of Mollusks?

Gastropoda

What does gastropoda mean?

“stomach foot”

How many shells do gastropods have?

Mostly one

What do gastropods eat?

Plants, predators, or parasites.

Which gastropod does not have a shell?

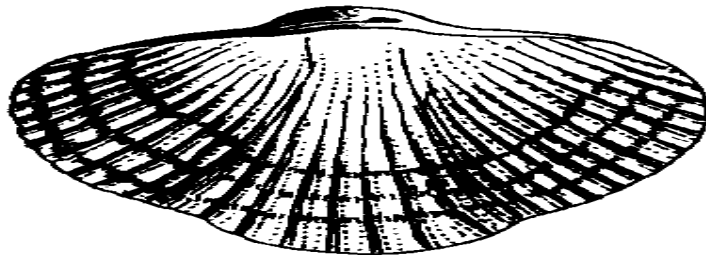
Slug

What kinds of mollusks belong to the Class Bivalvia?

clams, oysters, and scallops

What are some characteristics of bivalves?

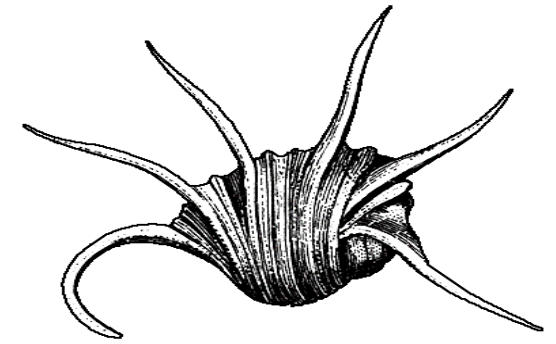
Marine, freshwater, they have no distinct head or radula, foot, hinge ligament, strong muscles, soft bodies. By filtering food from water. By sweeping and pushing.



How do bivalves feed?

How does cilia aid bivalves?

27.1 (cont.)



What class of mollusks means “head-footed?”

Cephalopoda

Where do cephalopods live?

Ocean

What are some common cephalopods?

octopus, squid, cuttlefish, and Nautilus

What cephalopod is the only one with a shell?

Nautilus

What unique feature do some of the cephalopods have?

an internal shell

What are some common characteristics of cephalopods?

tentacles, suckers, hooks, adhesive structures, swim, walk, radula, siphons, ink-like fluid.

What method of moving do squids use in the water?

jet propulsion