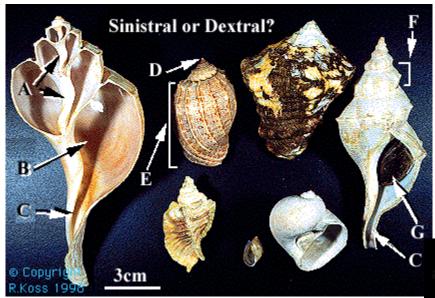
Phylum Mollusca

2nd largest phylum =soft-bodied, animals usually have a calcified shell

4 classes:

gastropoda, bivalvia, polyplacophora, cephalopoda

Gastropods

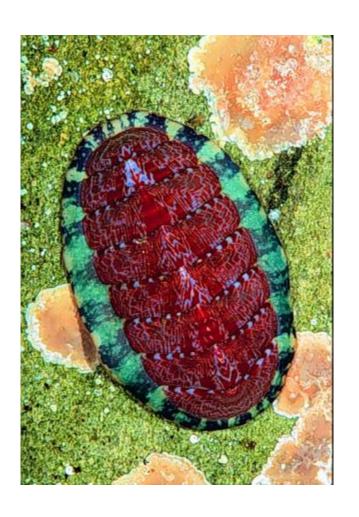




Æolid Nudibranch **Golden Gardens Park Puget Sound** Cerata Rhinophore (Nasifer) Foot Eyetipped tentacles

Polyplacophora - Chitons







Bivalvia



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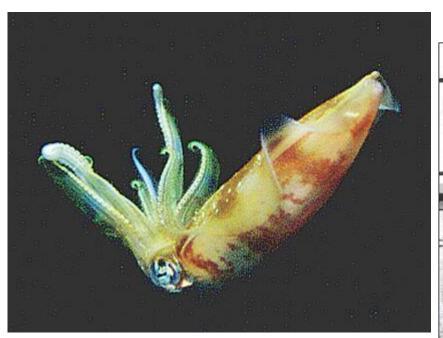


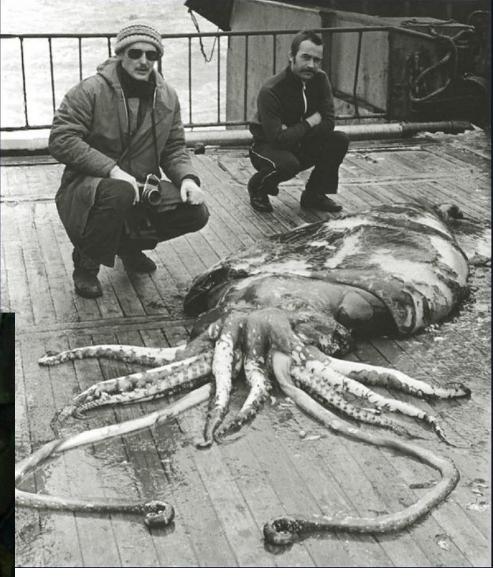


Cephalopoda

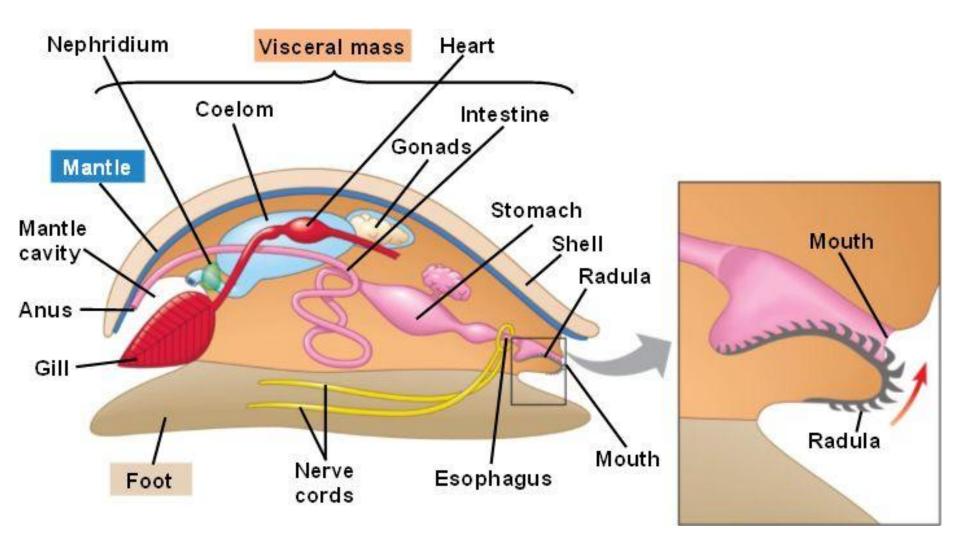












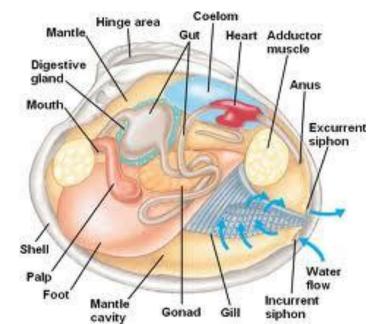
Characteristics of Phylum Mollusca:

- Body type: bilateral
- Ecological roles:
 - Food source
 - Predators control populations
- Body organization:
 3 layers endoderm, mesoderm, ectoderm
- Body cavity: coelom



Characteristics continued:

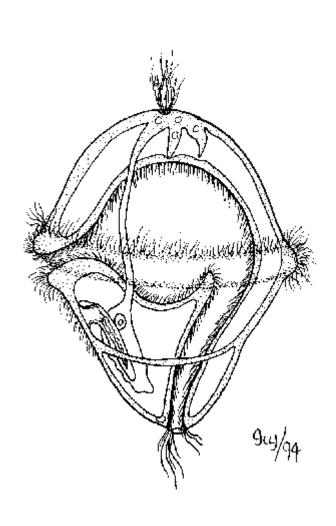
- Digestive system:
 - Complete mouth & anus
 - Radula (rasping tongue)
 - Filter feeding (bivalves)
- Reproduction: trochophore larvae
 - <u>Sexual:</u> dioecious <u>or</u> hermaphroditic (gastropods)
 - Asexual: regeneration for some







Trocophore Larva





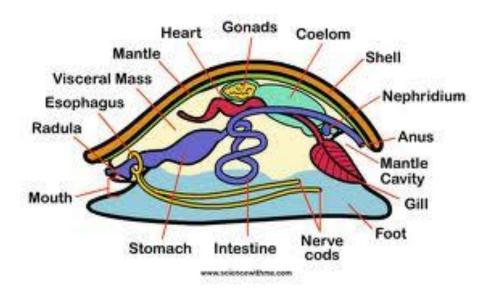
Characteristics continued:

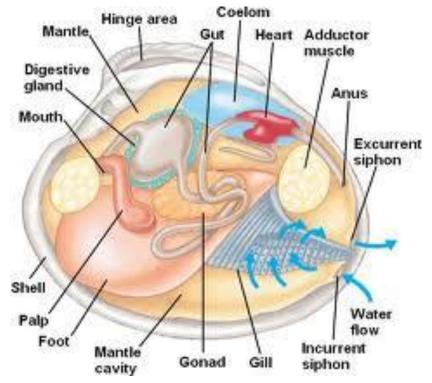
Circulation:

- Open = gastropoda,bivalves, polyplacophora
- Closed = cephalopods

Nervous system:

- Cephalopods brain & nerves
- Bivalves & polyplacophora have nerves
- Light receptors





Characteristics continued:

- Respiration:
 - Aquatic: gills
 - <u>Land</u>: special mantle
- Excretion: nephridia & anus
- Habitat:
 - mainly in the water
 - some on land = snail & slug



