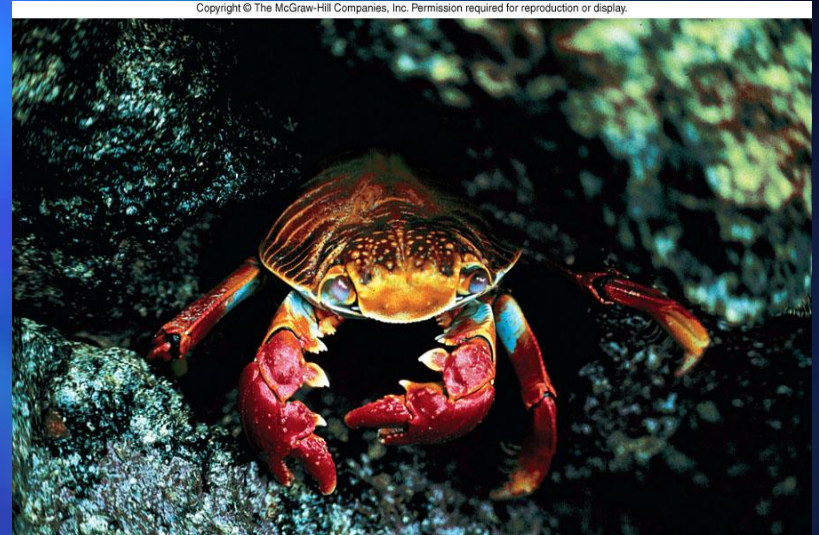


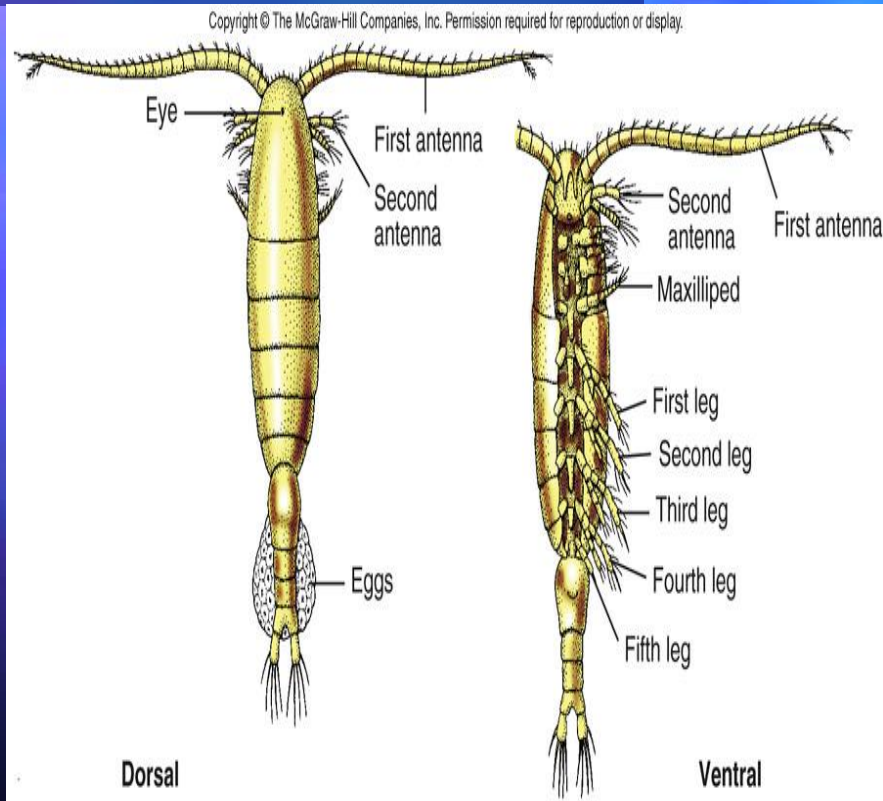
Arthropods

The Armored Achievers

- *Phylum Arthropoda*
- *3 of 4 animals on earth are arthropods*
- *marine arthropods- barnacles, shrimps, lobsters, crabs, etc.*
- *symmetrical*
- *Have jointed appendages, legs and mouth parts, moved by attached muscles.*



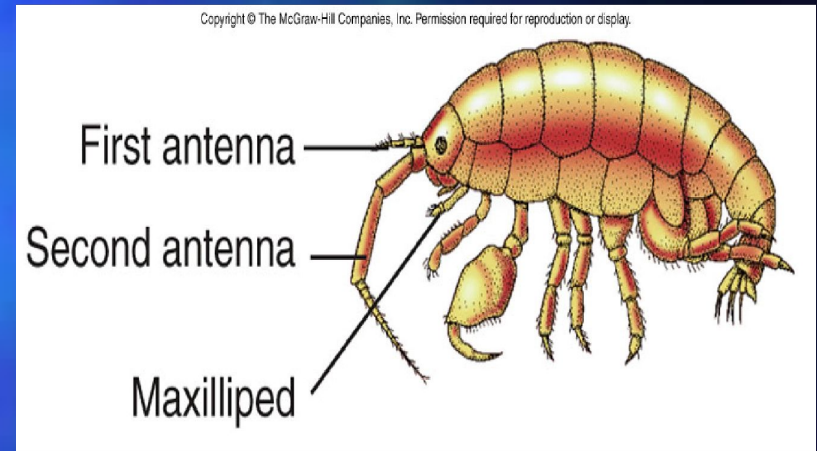
Armored Achievers Cont.



- *Exoskeleton- non-living external skeleton composed of chitin & secreted by the underlying layer of tissue.*
- *Must molt to grow, shed skeleton and grow develop new one.*

Crustaceans

- *Subphylum Crustacea*
- *Most possess gills to obtain oxygen*
- *Have 2 pairs of antennae, sense surroundings.*
- *68,000 known species and about 150,000 undescribed species.*
- *Small Crustaceans are everywhere: in plankton, on & in animals, seaweeds.*



Small Crustaceans

- Copepods- Parasitic
- Barnacles- filter feeders
- Amphipods- whale lice
- Isopods-

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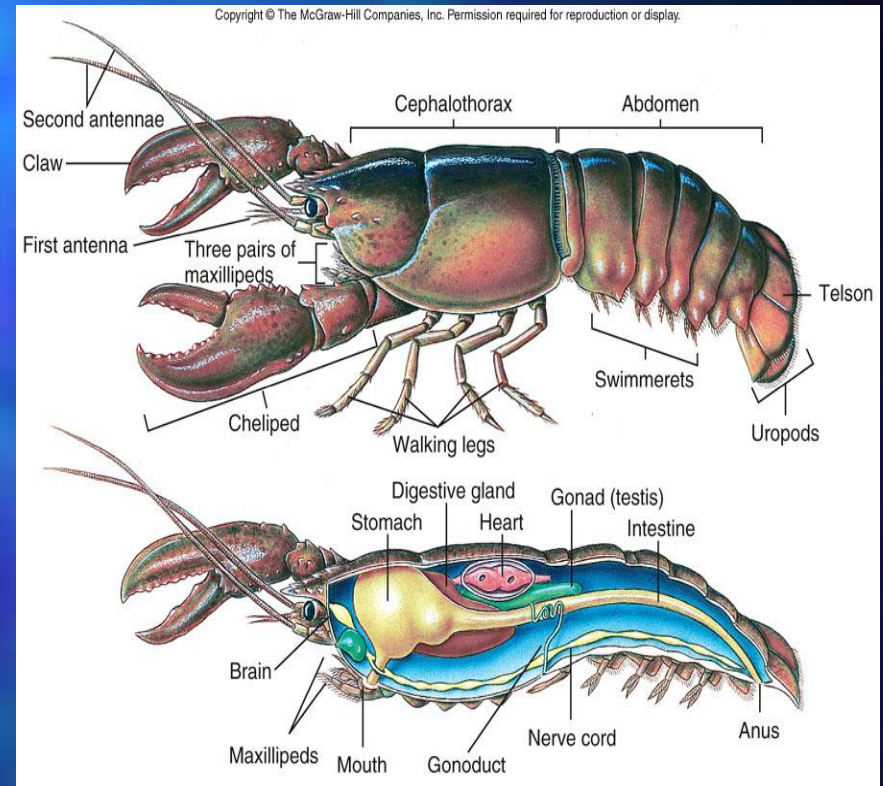
(a)



(b)

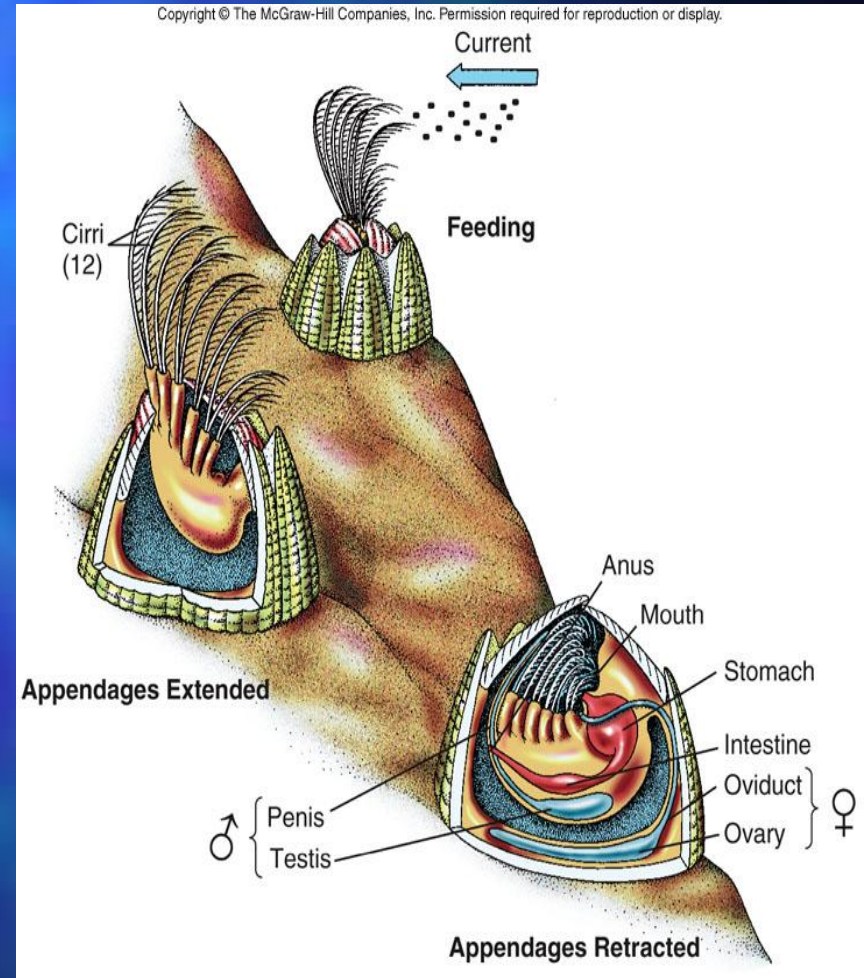
Shrimps, lobsters and Crabs

- Decapods-have 10 legs, largest group of crustaceans.
- Cephalothorax is the part of the body and the rest of the body is known as abdomen.



Feeding and Digestion

- Filtering feeding is common in copepods.
- Stiff hair-like bristles are used to catch food.
- Food passes through a stomach that has chitinous teeth for grinding and bristles for sifting.



Nervous System

- Crustaceans have a small brain
- most have compound eyes
- Have a keen sense of smell.

