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 mold 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**
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.
Filtering feeding is common in copepods.

Stiff hair-like bristles are used to catch food.

Food passes through a stomach with 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.