

## Zoology / Lemmons / Arthropods & Echinoderms Study Guide / 2013

### Big Things to keep remembering:

- My list for **Scientific Method** in a functional order: Observation, Scientific Question, Scientific Hypothesis, Research, Analyze Data, Conclusions, Present or Publish Conclusions
- **Zoology** = study of animals
- Number of species on earth = ~ 8 million
- Main reasons for species being endangered in our current generation: habitat destruction, pollution, poaching; over harvest, competition from species introduced by humans
- Individual organism, **Population** (all one species), **Community** (2 or more species in area), **Ecosystem** (includes the abiotic variables such as rocks, water = nonliving), **Biome** (larger scale), **Biosphere** (entire earth)
- Eukaryotes have a nucleus; Prokaryotes do not
- Domain, Kingdom, Phylum, Class, Order, Family, Genus, species
- Domains = Eukarya (eukaryotes); Archaea (harsh environment prokaryotes, such as thermal vents); Bacteria (prokaryotes that are the typical bacteria, such as on your skin)
- Kingdoms Fungi, Plantae, and Animalia; also the catch-all group **Protists** for which many Kingdoms are being named
- **Phyla Examples & Key Characteristics** on chart (opposite page): Phylum Porifera, Phylum Cnidaria, Phylum Platyhelminthes, Phylum Nematoda, Phylum Annelida, Phylum Mollusca, Phylum Arthropoda, Phylum Echinodermata

### Unit Specific Items:

- What happens when an arthropod outgrows its **exoskeleton**? It **molts** by shedding its entire exoskeleton and manufacturing a new one to take its place; under control of the endocrine system, which produces hormones
- Distinguish between the three largest groups of arthropods:
  - 1) **Subphylum Crustacea** (the crustaceans = crabs, shrimps, lobsters, crayfish, barnacles, pill bugs) = 2 pair antennae; chewing mouthparts called mandibles
  - 2) **Subphylum Chelicerata** (the chelicerates = horseshoe crabs, spiders, ticks, mites, scorpions) = NO antennae; mouthparts include chelicerae (= fangs); four pair walking legs
  - 3) **Subphylum Uniramia** (the uniramians = insects, centipedes, millipedes) = 1 pair antennae
- **Class Arachnida** = spiders, ticks, mites, scorpions; 4 pair of legs
- **Centipedes** = 1-pair of legs per body segment; carnivorous with venomous mouthparts
- **Millipedes** = 2-pair of legs per body segment; herbivorous eating dead leaves, grass, etc.
- According to textbook, **73% of all animal species** are insects (Class Insecta)
- **Typical Insect body plan** = Head, Thorax, Abdomen; 3 pair of legs attached to the thorax
- **Pheromones** = chemicals used to communicate amongst organisms of a species; e.g. alarm, courtship
- What is the **water vascular system** of echinoderms? System of internal tubes filled with water
- Functions carried out by the water vascular system include respiration, circulation, & movement
- For a sea star, trace the flow of ocean water through the water vascular system:
  - 1) Water enters the madreporite
  - 2) Water flows from madreporite to the ring canal
  - 3) Water flows from the ring canal into the radial canal to ampullae
  - 4) Ampullae contract to squeeze water into the tube feet
- Why is tearing a sea star apart and throwing it back into the water an ineffective way of trying to reduce sea star populations? Because they can **regenerate** missing parts
- Drawings of Echinoderms (from class handout; also can be found on TeacherWeb under "downloads")

# Study Guide Arthropods And Echinoderms

**Russell C. Hollingsworth**

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