

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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