Marine Biology – Study Guide for Exam 2

* Review all chapters and Powerpoints
* Make flashcards of all the animal groups we discussed
* What organisms are found in Domain Bacteria? Arhaea? Eukarya?
* What kingdom are algae in? What Domain?
* Remember that microscopic algae are phytoplankton, macroscopic algae are seaweeds.
* Remember that seaweeds have cellulose in their cell walls and photosynthesize like plants but are not plants. Plants have stuctures and vascular tissue not found in seaweeds.
* What 2 animals make up a large part of zooplankton?
* What is the largest group of animals on the planet?
* What is meant to be autotrophic? Heterotrophic?
* What types of plants are found in the marine environment? What adaptations allow them to survive in a high salinity environment?
* What are the characteristics of animals?
* What is asymmetry? Radial symmetry? Bilateral symmetry? What groups of animals have no symmetry (asymmetry)? What groups have radial symmetry? What groups have bilateral symmetry?
  + Remember that some animals that are bilaterially symmetrical may only have one life stage that is bilaterally symmetrical (like echinoderms)
* Sponges have specialized cells called choanocytes – what are these?
* The stinging cell of cnidarians are called what?
* Do Ctenophores (comb jellies) have stinging cells?
* What does sessile mean?
* There is a group of animals that have a lophophore – what is this structure used for?
* What does it mean to be an invertebrate?
* Review all of the groups of marine invertebrates we discussed.
* Why is body segmentation important?
* What are the characteristics of the arthropods?
* Echinoderms have a water vascular system – what is this used for?
* What are the characteristics of chordates?
  + The vertebrates are part of the chordates but we only discussed invertebrate chordates – what are these groups?