

## **Animals:**

1. When do animals first appear in the fossil record (answer in approximate MYAs)? Where did these primitive animals evolve? What type of organisms are the ancestors to animals?
2. What types of adaptations had to occur in order for animals to move from water to land? When did this occur?
3. Create a timeline describing the relationships and progression of chordates (phylum Chordata) as they moved from marine to terrestrial habitats.
4. Which group of Chordata moved from land back to water?

**This part of the study guide should be written on flashcards.**

2. List the 9 major phyla of animals studied in class. For each give a brief description of the phyla and a couple examples of the animals found with it.

Echinoderms – Porifera – Cnidarians – Mollusca – Nematoda – Platyhelminthes – Chordata – Arthropoda – Annelida

Some examples of the type of questions you will find on the exam are below? Answer each one

Which phyla:

- |                                     |   |
|-------------------------------------|---|
| a. are all marine? (3)              | f. includes the spiders and scorpions           |
| b. are the roundworms?              | g. has 5-point radial symmetry and bony plates  |
| c. has the most species?            | h. eats by filtering water through collar cells |
| d. has a foot and a mantle?         | i. has an endoskeleton                          |
| e. has the flatworms?               | j. includes the octopus and nautilus            |
| f. is the sponges?                  | k. includes earthworms and leeches              |
| g. has polyps, medusa and stingers? | l. includes the flukes and tapeworms            |