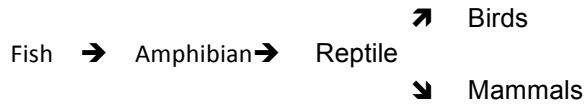


Date: _____

1. Name the five types of vertebrates (Classes of vertebrates)
2. What does “binomial nomenclature” mean? Why is it important?
3. What is the purpose of enrichment?
4. List 3 characteristics of an arthropod.
5. What is the difference between a vertebrate and an invertebrate?

Answers:

1. The five Classes of Vertebrates are: fish, amphibian, reptiles, birds and mammals. Life began in the water as single celled organisms. These single cells developed into multicellular organisms. These first organisms were invertebrates and the fish were the first vertebrates. Amphibians evolved from fish, reptiles from amphibians and birds and mammals from reptiles.



2. Binomial nomenclature is two part naming system. The scientific name allowed scientists across the world to discuss the same organism (plant or animal) that might be called by different common names in the areas they existed.
3. Enrichment provides a process for improving or enhancing a zoo animal's environment. Enrichment encourages foraging and problem-solving. It can be sensory or behavioral conditioning to reduce stress when providing veterinary care.
4. Arthropods are invertebrates. There are five major Classes of arthropods (Arachnids, centipedes, millipedes, crustacean and insects). The posses:
 - Jointed, paired appendages
 - Exoskeleton (molt to grow)
 - Bilateral symmetry
 - Body divided into distinct regions
 - Many undergo Metamorphosis (complete, incomplete)
5. Invertebrates lack a backbone; they may have an internal or external support of some sort. Vertebrates have a backbone.