

ZOOLOGY REVIEW!!!!!!

Define zoology

Relation to biology

Classification

Carl Linne (Carolus Linnaeus)

The KPCOFGS system of classification (MEMORIZE THIS!!!)

Kingdom, Phylum, Class, Order, Family, Genus, Species

Proper way to write genus and species names

Dichotomous keys

How to make one

Older classification schemes (dates will not be tested)

How to compare relationship (relatedness) to classification

Cladistics and Clades

What parts of clades mean (branch length, divisions (splits) in the tree)

How to organize species into clades

Natural Selection and Evolution

Lamarck's (incorrect) theory of acquired traits

Charles Darwin

Voyage of the *Beagle*

Finches

Darwin's five points

1. Creatures produce more offspring than needed for replacement
2. There is diversity in offspring
3. Some diversities offer advantages
4. Those with an advantage have a better chance of surviving
5. Populations will change over time

Natural Selection and advantages

Species change through adaptation

Our newspaper, white paper activity

Early life on Earth

How Earth changed since its first days

The role of archaea in early life

Oxygen in the atmosphere - cyanobacteria (blue-green algae)

Acquisition of mitochondria and chloroplasts

Comparing Domains and Kingdoms

The differences between bacteria and protists

Relationship between protists and animals

What the first animals were probably like

Definition of an animal

1. Multicellular
2. Heterotrophic
3. Lack of cell wall
4. Eukaryotic