Taxonomy

TAXONOMY-Classification of living things

Early Systems of Classification

In the 1500s, Aristotle classified organisms as either animals or plants.

Aristotle's Classification System		
Plants		
Herbs	Shrubs	Trees
Violets Rosemary Onions	Blackberry bush Honeysuckle Flannelbush	Apple Oak Maple
Animals with red blood		
Land	Water	Air
Wolf Cat Bear	Dolphin Eel Sea bass	Owl Bat Crow

Linnaeus's System

- Linnaeus's system of classification was the first formal system of taxonomy.
 - System based on STRUCTURAL similarities and EVOLUTIONARY relationships







- Linnaeus's method of naming organisms, called binomial nomenclature, gives each species a scientific name (Genus & species) with two parts.
- Scientific names are in Latin and used in Biology because common names can vary



Ursus americanu

Taxonomic Categories

- A named group of organisms is called a taxa.
- The domain is the broadest of all the taxa and contains one or more kingdoms.
- Arranged from broad to specific
 - Kingdom (broad)
 - Phylum/Division
 - Class
 - Order
 - FamilyGenus
 - Species (specific)



The Linnaeus System Written in Latin

1. KINGDOM – Broadest (Animalia)
2. PHYLUM / DIVISION (Chordata)
3. CLASS (Mammalia)
4. ORDER (Primate)
5. FAMILY (Hominidae)
6. GENUS (Homo)
7. SPECIES- specific organism (Homo sapien)

An organisms scientific name is their genus and species classification