

CLASSIFICATION

- For thousands of years, scientists have been putting living things into categories
- Classification is the process of putting items into groups based on their characteristics

CLASSIFICATION

- Most classification systems have levels
- Start very general
 - More specific
 - More specific
 - More specific
 - One item

STUDENTS IN VIRGINIA

- We could classify students in Virginia this way:
 - Students in Virginia
 - Students in Henrico County



- Students in Middle School
 - Students at Wilder Middle School



- Students in the 6th grade
 - Students in Mr. L's science class
 - Specific student

CLASSIFYING LIFE

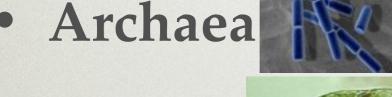
- 1753 Carl Linnaeus developed a system to name organisms
- Still in use today, but has been modified
- Starts with a very general category (Domain)
- Ends with a very specific category (Species)

DOMAINS

- There are 3 different domains
- Use cell characteristics to place organisms
- The 3 domains are:
 - Bacteria
 - Archaea
 - Eukarya

KINGDOM

- The next level is the Kingdom
- There are 6 Kingdoms
 - Bacteria
 - Archaea



• Protista







• Fungi







Plants







Animals











NEXT LEVELS

- We will discuss more about these levels when we talk about each kingdom:
- Phylum
- Class
- Order
- Family
- Genus
- Species (Most Specific)

NAMING ORGANISMS

- Each organism has a unique scientific name
- This is the name used by scientists all around the world
- Scientific names are created using Binomial nomenclature (two names)
- Helps all organisms to have names in the same format

BINOMIAL NOMENCLATURE

- These are the guidelines for writing scientific names:
 - 1-Each name has 2 parts, the genus and the species
 - 2-Names are italicized or underlined when written
 - 3-First letter of genus name is capitalized
 - 4-Species name is not capitalized
 - Ex: Homo sapien, Canis lupus, Felis catus, Escherichia coli