

A collage of five images representing different organisms: a squid, a jellyfish, a tiger, a snake, and a beetle. The word "BIODIVERSITY" is written in large, white, stylized letters across the center of the collage.

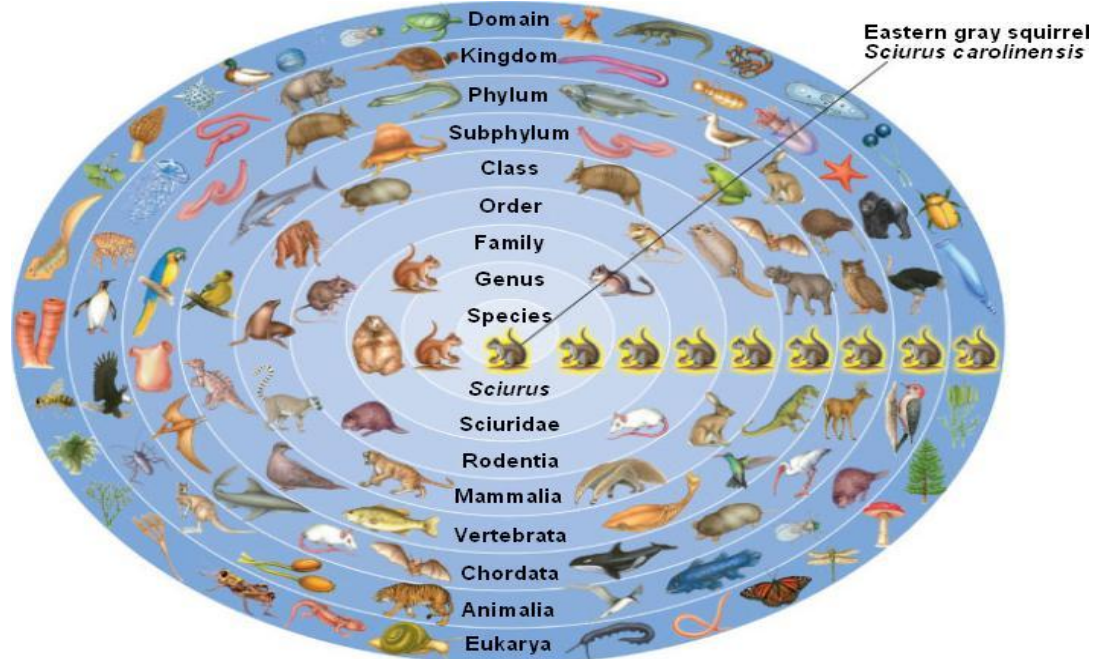
BIODIVERSITY

How do we categorize organisms?

FINDING ORDER IN DIVERSITY

To study the diversity of life, we use a classification system to name organisms and group them in a logical manner.

Taxonomy: the discipline of classifying organisms and assigning names



Common names are what we use on a daily basis.

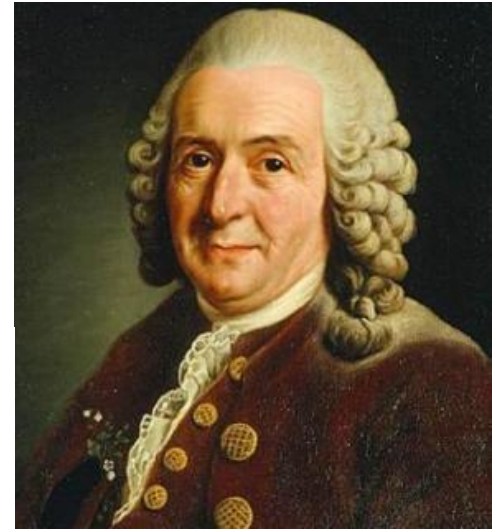
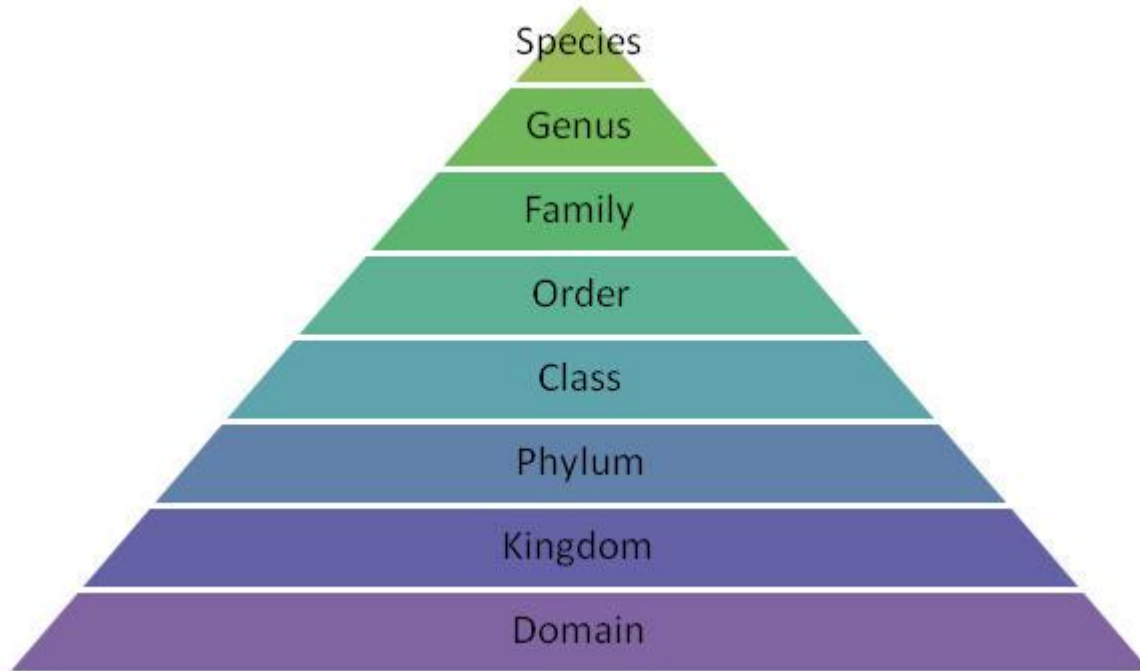


Felis concolor

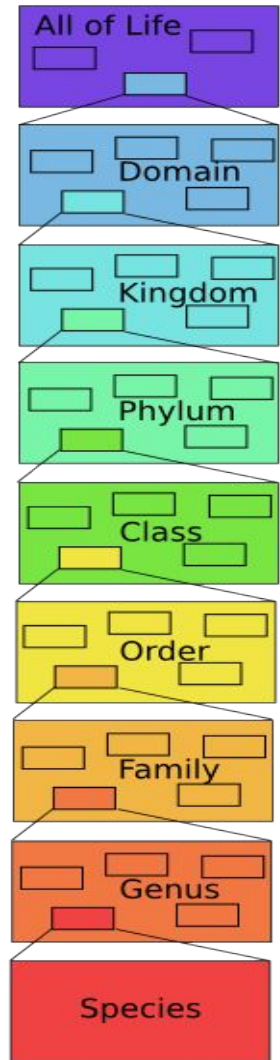
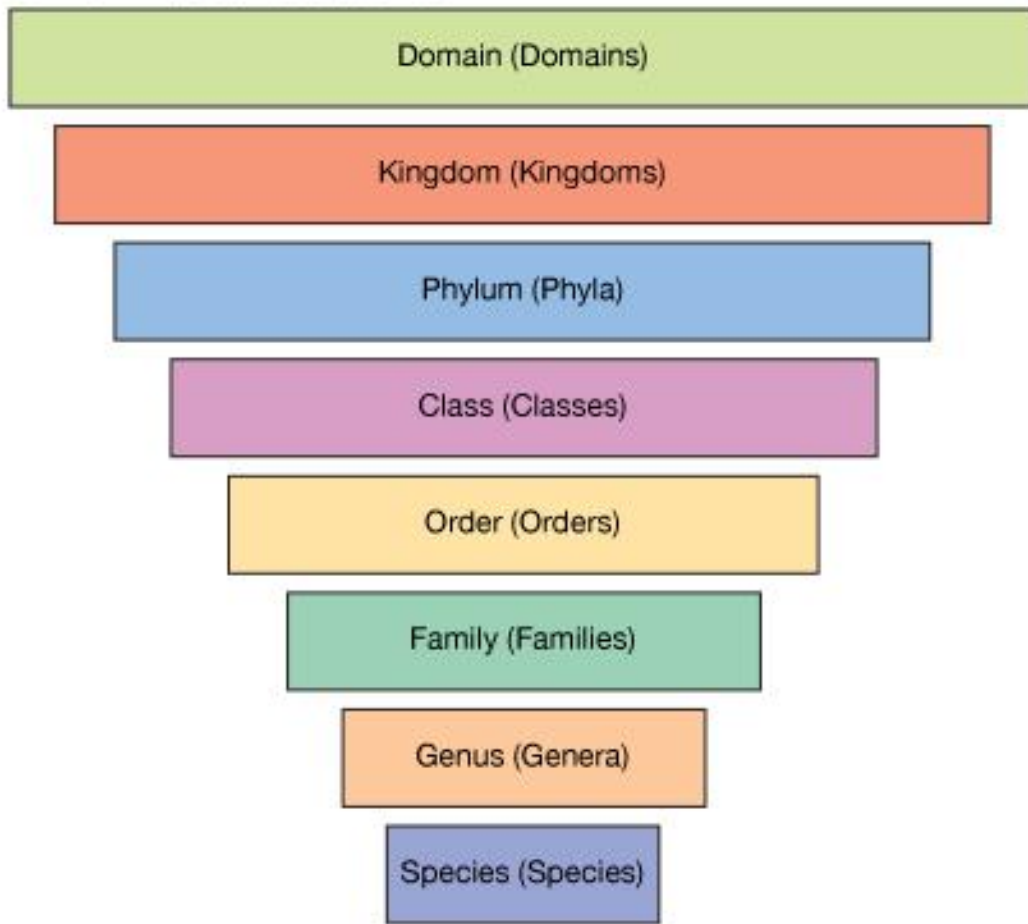
Binomial Nomenclature : Each species receives a two-part scientific name, typically a latin description

LINNAEUS' SYSTEM OF CLASSIFICATION

Carolus Linnaeus developed a classification system that was hierarchical- consisted of levels from smallest to largest



How animals are classified



Eukarya
Animalia
Chordata
Mammalia
Carnivora
Felidae
Felis
Felis catus

You
Eukarya
Animalia
Chordata
Mammalia
Primates
Hominidae
Homo
Homo sapiens

Grizzly Bear



Ursus arctos
(genus) (species)

Polar Bear



Ursus maritimus

Panda Bear



Ailuropoda melanoleuca

Grizzly bear Black bear Giant panda Red fox Abert squirrel Coral snake Sea star



KINGDOM Animalia



PHYLUM Chordata



CLASS Mammalia



ORDER Carnivora



FAMILY Ursidae



GENUS Ursus



SPECIES *Ursus arctos*

Species are classified based on similarities

MAKING AN ACROSTIC MEMORY TOOL

KINGDOM
PHYLUM
CLASS
ORDER
FAMILY
GENUS
SPECIES

Kings
Play
Chess
On
Fine
Grained
Sand

You will need:

- A piece of blank paper
- Colorful writing utensils

Remember to:

- Make the Letter big and visible
- Be creative!
- (in parenthesis) note the ***taxon***

We will be sharing these with the whole class