

Classification Review 101 video notes



What is and why is Taxonomy Important?

- Taxonomy is the science of _____ groups of biological organisms on the basis of _____.

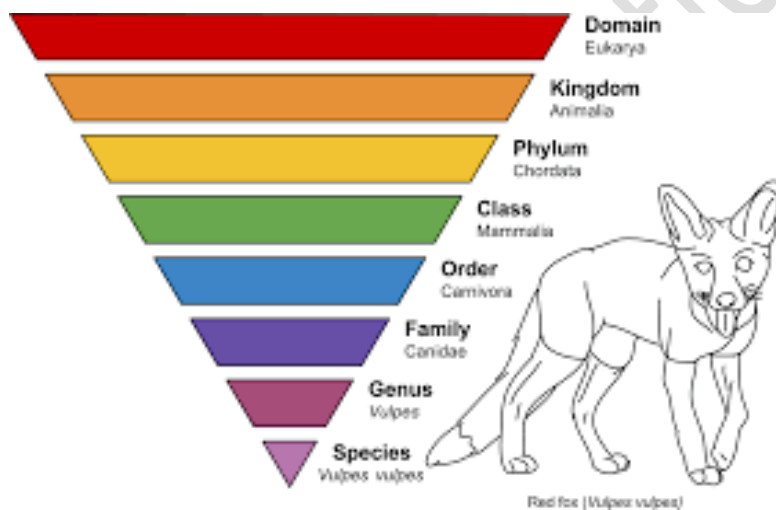
- Taxonomy is important because it helps

- Scientists to have a _____ to name organisms (based on _____)

- Show the connection between certain organisms based on their _____

Taxonomy chart – groups organisms from _____ (Domain) all the way down to most in common (_____)

Annotate the following chart below as shown on the video. (1:02)



Check for Understanding 1 – Put the following taxons in the proper order: Class, Kingdom, Species, Order, Domain, Phylum, Genus, Class, Family

1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____
7. _____ 8. _____

What are the three Domains? _____

Eukaryota have _____

Archaea and Bacteria have _____

Fill out the following chart according to the Venn diagram on the video. (3:19)

Plants	Both	Animals

Who is Carl Linnaeus?

- Carl Linnaeus invented _____ which is a system for naming organisms with a _____
- The 2 part name consists of a _____. For example we are *Homo sapien*, where as in _____
- *Homo sapien* and _____ have the same _____ in common but they do not have same _____ in common.
- This is important because only organisms from the same _____ can produce _____

Check for Understanding 2 – Use the following taxonomy naming chart to answer the questions.

Taxon	Human	Walrus	Bald Eagle	Honey Bee
kingdom	<u>Animalia</u>	<u>Animalia</u>	<u>Animalia</u>	<u>Animalia</u>
phylum	<u>Chordata</u>	<u>Chordata</u>	<u>Chordata</u>	<u>Arthropoda</u>
class	<u>Mammalia</u>	<u>Mammalia</u>	<u>Aves</u>	<u>Insecta</u>
order	<u>Primates</u>	<u>Carnivora</u>	<u>Accipitriformes</u>	<u>Hymenoptera</u>
family	<u>Hominidae</u>	<u>Odobenus</u>	<u>Accipitridae</u>	<u>Apidae</u>
genus	<u>Homo</u>	<u>Odobenus</u>	<u>Haliaeetus</u>	<u>Apis</u>
species	<u>Homo sapiens</u>	<u>Odobenus rosmarus</u>	<u>Haliaeetus leucocephalus</u>	<u>Apis mellifera</u>

1. What taxon do all of these organisms have in common? _____
2. Which taxon includes the most different types of organisms? _____
3. Which taxon includes the most similar types of organisms? _____
4. What is the scientific name for each of these organisms? Human = _____
 Walrus = _____ Bald Eagle = _____ Honey Bee = _____