

Taxonomy Review Questions:

1. List the taxonomy groups from most inclusive (the most organisms) to least inclusive (the least amount of organisms):

- Domain
- Kingdom
- Phylum
- Class
- Order
- Family
- Genus
- species

2. Which group has organisms that are most closely related, kingdoms or species? ____species____

3. Which group has organisms that are most closely related, phylum or order? ____order____

4. List four reasons scientists use a taxonomic system:

Avoid confusion

Find evolutionary relationships

All same scientists can use same name

Equal understanding of system

5. Circle the box below that most correctly describes what would be found in Order Carnivora of cat-like animals:

15 families
126 genera
290 species

126 families
15 genera
290 species

290 families
126 genera
15 species

126 families
290 genera
15 species

6. Identify the name of all the birds below:



Dichotomous Key to Representative Birds	
1. a. The beak is relatively long and slender.....	Certhidea
b. The beak is relatively stout and heavy.....	go to 2
2. a. The bottom surface of the lower beak is flat and straight	Geospiza
b. The bottom surface of the lower beak is curved	go to 3
3. a. The lower edge of the upper beak has a distinct bend	Camarhynchus
b. The lower edge of the upper beak is mostly flat	Platyspiza

W - __Geospiza____

X - __Platyspiza____

Y - __Certhidea____

Z - __Camathynchus____

7. How many domains are there? ____3____

8. How many kingdoms are there? ____6____

9. How many kingdoms contain prokaryotes? ____2____

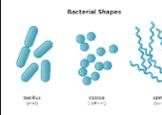
10. Which two organisms below are most closely related? _____ Grey wolf & coyote _____

	American Badger	Coyote	European Otter	Gray Wolf	Leopard
Kingdom	Animalia	Animalia	Animalia	Animalia	Animalia
Phylum	Chordata	Chordata	Chordata	Chordata	Chordata
Class	Mammalia	Mammalia	Mammalia	Mammalia	Mammalia
Order	Carnivora	Carnivora	Carnivora	Carnivora	Carnivora
Family	Mustelidae	Canidae	Mustelidae	Canidae	Felidae
Genus	<i>Taxidea</i>	<i>Canis</i>	<i>Lutra</i>	<i>Canis</i>	<i>Panthera</i>
Species	<i>taxus</i>	<i>latrans</i>	<i>lutra</i>	<i>lupis</i>	<i>pardus</i>

11. Which two species in the chart above share ONLY kingdom, phylum, class, order and family?

_____ American badger _____ and _____ European otter _____

12. Fill in the chart below WITHOUT looking at the answers. When you are finished, fill in what you don't know and STUDY!

	Eubacteria	Archaeobacteria	Protist	Fungi	Plant	Animal
Characteristic						
heterotrophs/autotrophs	HA	HA	HA	H	A	H
unicellular/multicellular	U	U	UM	(ONE U) M	M	M
prokaryotic/eukaryotic	P	P	E	E	E	E

13. What is the main difference between a prokaryote and a eukaryote? __pro has no nucleus or membraned organelles__

14. Which kingdom contains unicellular eukaryotes (paramecium, euglena, amoeba) that only live in water? __protista__

15. How do fungi and plants differ? __fungi is heterotroph with cell wall of chitin, plant is autotroph with cell wall of cellulose

Use the cladogram to answer the following:

16. What characteristic(s) do all animals to the right of the ray-finned fish have in common?

_____ four limbs _____

17. Are rabbits more closely related to primates or crocodiles? __primates__

18. What characteristic is shared by all animals in this cladogram? __vertebrae__

19. What do reptiles have that amphibians do not? __amniotic egg and eggs with shells__

20. Add a branch where a snail would go on this cladogram and write "snail" where it belongs.

