

classification

Study Guide

Name: _____ Date: _____

Classification Study Guide

 1. Carl Linnaeus is the "father of naming system called _____ (binomial nomenclature) or taxonomy."

For each organism listed in the chart below, determine its Latin name. Write the name using the correct form of writing binomial nomenclature in each row.

Common Name	Scientific Name	Kingdom	Phylum	Class	Order	Family	Genus	Species
Human	Homo sapiens	Eukarya	Chordata	Mammalia	Carnivora	Primates	Homo	sapiens
Goat	Capra hircus	Eukarya	Chordata	Mammalia	Carnivora	Cetartiodactyla	Capra	hircus
Snake	Coluber constrictor	Eukarya	Chordata	Reptalia	Crocodylia	Serpentes	Coluber	constrictor
Shrimp	Decapoda	Eukarya	Arthropoda	Crustacea	Decapoda	Decapoda	Decapoda	Decapoda

2. What is a phylum?

3. What is a kingdom?

4. Kingdoms are mammals and birds belong to a group known as eukaryotes. Birds have a dorsal fin, but do not share a common ancestor. Explain how this shows the birds within both groups despite their unrelated phylogeny.

5. Use the 3 domains and briefly describe each.

DOMAINS

Bacteria: _____

Eukarya: _____

Prokarya: _____

Below is a cladogram that includes members of the shark family.



Extant Shark Orders

6. Name at least 4 derived characters found in this diagram.

7. What is a clad?

For each statement below, determine whether or not it best describes cladograms ("C"), phylogenetic trees ("T") or both ("BT").

8. A diagram that groups organisms by derived characters.

9. A diagram that shows organisms phylogenetic and evolutionary tree.

10. An evolutionary diagram that includes clad.

11. A diagram that shows relationships among organisms.

12. Place the taxonomic ladder starting with ladder and ending with species, in the correct order.

13. The most diverse level is the _____.

14. The least diverse level is the _____.

15. The largest group is the _____.

16. The smallest group is the _____.

17. Use the 3 domains and briefly describe each.

18. Kingdoms are mammals and birds belong to a group known as eukaryotes. Birds have a dorsal fin, but do not share a common ancestor. Explain how this shows the birds within both groups despite their unrelated phylogeny.

19. Use the 3 domains and briefly describe each.

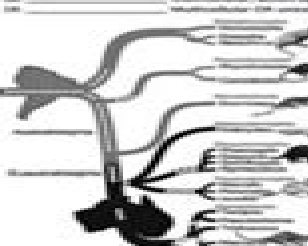
DOMAINS

Bacteria: _____

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Below is a cladogram that includes members of the shark family.



Extant Shark Orders

20. Name at least 4 derived characters found in this diagram.

21. What is a clad?

For each statement below, determine whether or not it best describes cladograms ("C"), phylogenetic trees ("T") or both ("BT").

22. A diagram that groups organisms by derived characters.

23. A diagram that shows organisms phylogenetic and evolutionary tree.

24. An evolutionary diagram that includes clad.

25. A diagram that shows relationships among organisms.

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