

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	Colubridae	Eukarya	Chordata	Reptalia	Crocodylia	Serpentes	Colubridae	
Snake	Colubridae	Eukarya	Chordata	Reptalia	Crocodylia	Serpentes	Colubridae	
Snake	Colubridae	Eukarya	Chordata	Reptalia	Crocodylia	Serpentes	Colubridae	

2. What is a phylum?

3. What is a kingdom?

4. Taxonomy is the study of the classification of organisms. Explain how the study of taxonomy is important to biology.

5. Use the 3 domains and briefly describe each.

DOMAINS

Eukarya: organisms with a nucleus
Prokarya: organisms without a nucleus
Archaea: organisms that live in extreme environments

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 clade?

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

9. A diagram that groups organisms by derived characters.

10. A diagram that shows organisms phylogenetic and evolutionary history.

11. An evolutionary diagram that includes clades.

12. A diagram that shows relationships among organisms.

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

Kingdom, Phylum, Class, Order, Family, Genus, Species

14. The most diverse level is the _____, whereas the least diverse group is the _____.

15. The largest group is the _____, whereas the smallest group is the _____.

16. Use the 3 domains.

17. For each description below, determine which kingdom best describes it.

18. Multicellular, eukaryotic, autotrophic, cell walls of cellulose.

19. Multicellular, eukaryotic, heterotrophic, no cell walls, no chloroplasts, no nucleus.

20. Multicellular, eukaryotic, heterotrophic, cell walls of cellulose.

21. Multicellular, eukaryotic, autotrophic, cell walls of cellulose.

22. What are cladograms and phylogenetic trees?

23. The diagram on the left represents a phylogenetic tree of organisms. Use the tree to answer the following.

24. Which pair of organisms has the closest common ancestor? (Homo and Pan, or Homo and Gorilla, or Homo and Pongo, or Homo and Chimpanzee) Why do you think so?

25. In terms of evolutionary time, which species is the oldest? (Homo and Pan, or Homo and Gorilla, or Homo and Pongo, or Homo and Chimpanzee)

26. Place in a logical format. You find a new species of bird, one that you have never seen before. You take many photos and try to get an idea how other physical characteristics such as size. When you get back home you share your pictures with a friend, who tells you which type of bird it is. In order to find out, what bird might you use and how would it work?

27. Make a simple dichotomous key for the leaf samples provided.

28. 

29. Explain how classification has changed significantly since Linnaeus first came up with his system of classification.

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