

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
Snake	Colubridae	Eukarya	Chordata	Reptalia	Crocodylia	Colubridae	Coluber	constrictor
Butterfly	Lepidoptera	Eukarya	Arthropoda	Insecta	Lepidoptera	Lepidoptera	Lepidoptera	Lepidoptera

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 (yellow box)

Eukarya (green box)

Prokarya (blue box)

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 ("P") or both ("CP").

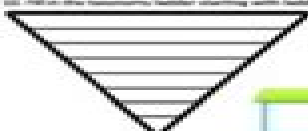
8. A diagram that groups organisms by derived characters.

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 _____, whereas the least diverse group is the _____.

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

15. Use the 3 domains and briefly describe each.

16. 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.

17. Use the 3 domains and briefly describe each.

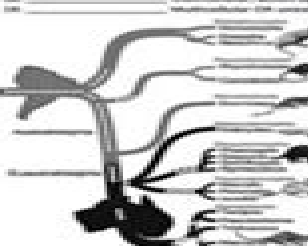
DOMAINS

Bacteria (yellow box)

Eukarya (green box)

Prokarya (blue box)

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



Extant Shark Orders

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

20. What is a clad?

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

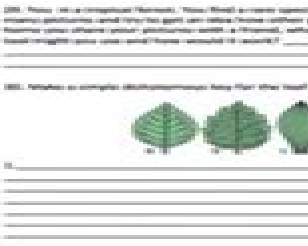
22. A diagram that groups organisms by derived characters.

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.

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



Extant Shark Orders

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

28. What is a clad?

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

30. A diagram that groups organisms by derived characters.

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

32. An evolutionary diagram that includes clad.

33. A diagram that shows relationships among organisms.

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INFORMATION TO HELP
STUDENTS PREPARE**

Biology Classification Study Guide

Marco Cascella



Biology Classification Study Guide:

Reviewing **Biology Classification Study Guide**: Unlocking the Spellbinding Force of Linguistics

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