

classification

Study Guide

Name: _____
Date: _____

Classification Study Guide

1. Carl Linnaeus is the "father of _____".

2. Carl Linnaeus is the person who _____ naming organisms called _____.

For each organism listed in the chart below, determine its Latin name. Write the name using the correct rules of writing binomial nomenclature as best you can.

Species	Genus	Family	Order	Class	Phylum
Human	Homo	Hominidae	Primates	Mammalia	Chordata
Shrimp	Decapoda	Decapoda	Decapoda	Arthropoda	Chordata
Shrimp	Decapoda	Decapoda	Decapoda	Arthropoda	Chordata
Shrimp	Decapoda	Decapoda	Decapoda	Arthropoda	Chordata
Shrimp	Decapoda	Decapoda	Decapoda	Arthropoda	Chordata

3. What is a phylum?

4. What are the three domains?

5. What are the three domains and briefly describe each.

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

Great White Shark	Great White Shark
Hammerhead Shark	Hammerhead Shark
Shark	Shark
Shark	Shark
Shark	Shark
Shark	Shark
Shark	Shark
Shark	Shark
Shark	Shark
Shark	Shark

Extinct Shark Orders

Reptiles, amphibians, and birds are also shown in the cladogram.

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

7. What is a node?

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, phylogeny, and incorporates time.

_____ 10. An evolutionary diagram that includes fossils.

_____ 11. A diagram that shows relationships among organisms.

_____ C

_____ T

_____ BT

22. Fill in the taxonomy starting with taxon and ending with species, in the correct order.



E.G. The most diverse level is the _____

the narrowest (the least diverse) group is the _____

E.G. The largest group is the _____

the smallest group is the _____

E.3. Use the 5 Kingdoms

Four eukaryotic kingdoms:

- 1. _____
- 2. _____
- 3. _____
- 4. _____

Moneromycetes, multicellular or unicellular, cell walls of chitin.

unicellular, cell walls made of polysaccharides, no nucleus.

Multicellular heterotrophs, no cell walls, always multicellular.

unicellular, cell walls, autotrophic (photosynthetic), no nucleus.

Multicellular, autotrophic, cell walls of cellulose.

Multicellular, unicellular, autotrophic (photosynthetic).



23. Sketch an organism and label its parts.

24. This diagram of life represents a phylogenetic tree of organisms. Use the tree to answer the following.

E.G. Which part of the organism has the most recent common ancestor (homologous structure) and is not homologous and analogous? (Why do you think so?)

25. In terms of evolutionary time, which common ancestor is the most primitive and earliest? (homologous structure or homologous and analogous) (Why do you think so?)

26. How important is the fossil record in understanding the evolution of life? (Why do you think so?)

27. Sketch a complex organism and label its parts.



28. How important is the fossil record in understanding the evolution of life? (Why do you think so?)

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