

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Date: \_\_\_\_\_

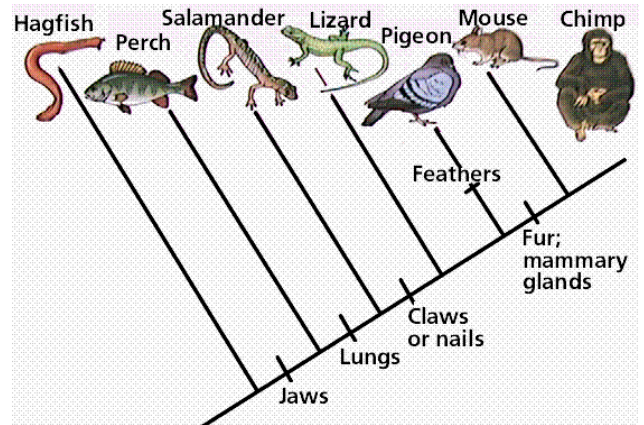
### Biology Quarter 3 Study Guide

1) Compare each of the groups of vertebrates listed in the table below:

Trait:	Fish	Amphibians	Reptiles	Birds	Mammals
Body Covering					
Body Temp.					
Respiration					
Other distinguishing trait(s)					

2) Use the cladogram shown to the right to answer the following questions:

- Which organisms have fur and mammary glands?
- Which trait is present in the pigeon but no other organism?
- What trait does a salamander have that a perch does not?
- Which organism is most closely related to the mouse?



3) Examine the image below. What types of structures are shown here? \_\_\_\_\_



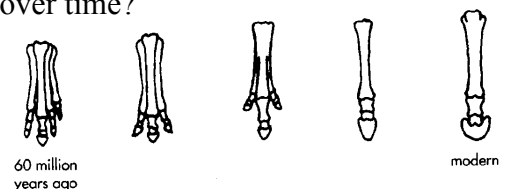
Explain how they provide evidence of a common ancestor: \_\_\_\_\_

4) Why aren't viruses considered living organisms?

5) **True/False?** *If false, correct the statement below:*

The biological meaning of evolution is "change in individuals over time."

6) How have horse fossils (pictured below) shown a change in horses over time?



7) How did Darwin describe the process of evolution in his book *The Origin of Species*?

8) Evolution is a *scientific theory*. What does the word “theory” mean in science?

9) List and describe Darwin’s four steps of natural selection

(1)

(2)

(3)

(4)

10) What does **natural selection** mean? Give an example.

11) What does **artificial selection** mean? Give an example.

12) Compare the six kingdoms of living organisms in the chart below:

Characteristic	Eubacteria	Archaeobacteria	Protista	Fungi	Plantae	Animalia
Pro/Eukaryotic						
Uni/Multicellular						
Auto/Heterotroph						
Cell Wall?						

13) *Walking with Monsters* showed the evolution of several major groups of organisms: reptiles, fish, arthropods, and amphibians. In the space below, place them in the correct order of their evolution AND describe what new trait(s) each group had to allow it to survive in its environment.

Group of Organism to Evolve:	Trait(s) that allowed it to survive:
1: _____	
2: _____	
3: _____	
4: _____	