

Name: _____ Date: _____ Per: _____

Study Guide for Unit 1, "Life Over Time."

Please answer the following questions to prepare for your Unit 1, "Life Over Time" Test:

1. What are the 5 characteristics that all living things share? (pp. 6-9).
 - 1.
 - 2.
 - 3.
 - 4.
 - 5.

2. What are (4) things that all living things need to survive? (p. 10).
 - 1.
 - 2.
 - 3.
 - 4.

3. What is a cladogram? What does it mean if two organisms are next to each other on a cladogram? (p. 62).

4. What is *relative dating* of fossils? Did the fossil from the deepest layer of Earth form before the fossil from the shallowest layer or did the fossil from the shallowest layer form before the fossil from the deepest layer? (p. 40).

5. What are the "similarities in structure" (common structure)?" What does it mean when two organisms have common skeletal structures but different function? Give an example. (p. 32).

6. What are the (4) Eras in the Geologic Time Scale? What type of organism dominated in each Era? Which Era is the most recent? (pp. 44-47).
 - 1.
 - 2.
 - 3.
 - 4.

7. What is a population? (p. 16).

8. What are the Kingdoms in the Domain, Eukarya? What are the characteristics of each Kingdom in the Domain, Eukarya? (p. 60-61).

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

9. What are the (2) characteristics that scientists examine to classify living things? (p. 55).

- 1.
- 2.

10. Where do organisms in the domain Archaea live? (p. 58).

11. What is an adaptation? (p.21). What adaptation gives a giraffe its ability to survive in its environment and reproduce? Explain how this adaptation gives the giraffe its advantage over other animals in its environment to survive and reproduce in a changing environment?

12. What are the (4) types of evidence to support the theory of Evolution? Explain how EACH can be used to support The Theory of Evolution. (pp. 31-35).

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

13. How did photosynthesizing prokaryotes that lived during the Precambrian period help life on Earth evolve? (p. 44).

14. Identify the Kingdom for each of the following organisms: (pp. 60-61).

- a. Fern: _____
- b. Yeast: _____
- c. Algae: _____
- d. Insect: _____

15. What are the (4) parts of Natural Selection and what is the definition of each? (pp. 20-21).

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