

Biology

Name: _____

Worksheet over pp 392-400

Date: _____ Hour: _____

1. What two things do they tell us to look at in order to see the past in the Real-World Reading Link?

2. How long ago do scientists think Earth formed?

3. What part of the Earth formed about 500 million years ago?

4. What would have caused life on Earth to not exist when it was first forming? _____

5. Where did the gases that made up the early atmosphere come from? _____

6. What element was not present in the beginning of Earth that we need today to survive? _____

7. When do the first signs of life appear on Earth?

8. Define

fossil: _____

9. What percentage of organisms that have ever existed are now extinct? _____

10. Why do fossils not form in igneous or metamorphic rocks?

11. Describe how fossils form in sedimentary rocks:

12. What is strata?

13. Looking at Figure 14-3, and thinking about the law of superposition, which layer shows that an aquatic ecosystem replaced a land ecosystem?

14. How is a half-life used to determine the age of a rock? _____

15. What isotope is used to date the age of living things like bones?

16. Looking at Figure 14.4, what would the age of a rock be if it contained only 10% C-14? _____

17. What are the two main divisions in the geologic time scale?

18. How many years, approximately, are in each of the following time periods:

a. Epochs _____ b. Periods _____ c. Eras _____

19. According to Figure 14.5, during what Period did the following events occur:

a. First plants appear

b. Dinosaurs scatter

c. Apes appear

20. What new period was added to the geologic time scale in 2004? _____

What occurred during this period?

21. What era was occurring when the first signs of life appeared? _____

22. How often do mass extinctions occur?

23. Why is the K-T boundary important?

24. Describe plate tectonics:

25. What era occurred when mammals became the dominant land animals? _____
