

Chapter 3 Review Changes Over Time

1. What is a species?
2. What is an adaptation? Give an example.
3. What is evolution?
4. What did Darwin observe about finches on the Galapagos Islands?
5. What theory did his observations lead him to?
6. What are the four components of natural selection?
7. Who developed the theory of natural selection?
8. How did Darwin believe that species could become isolated?
9. What is a fossil?
10. How do most fossils form?
11. What are the three kinds of fossils? Describe each.
12. Name two ways that scientists determine a fossil's age. Describe each.
13. What is a half-life and how is it used in dating fossils?
14. If strontium-90 has a half-life of 28 years, what percent of a sample would be left after 56 years? If you had 8 grams of strontium-90, how much would be left after 56 years?

15. What is the fossil record?
16. What is the largest span of time on the Geologic Time Scale?
17. What are the three eras in order from oldest to youngest on the Geologic Time Scale?
18. What are the three theories of evolution we studied? Describe each.
19. According to your text book, what three similarities are evidence for evolution?
20. What are homologous structures?
21. According to your book, why can proteins be used to determine how closely related two organisms are?
22. Are all scientists supporters of evolution?
23. What evidence is there that earth is young and not old?
24. Name some famous creationists?
25. What are some of the unproven ideas that are included in the theories of evolution?