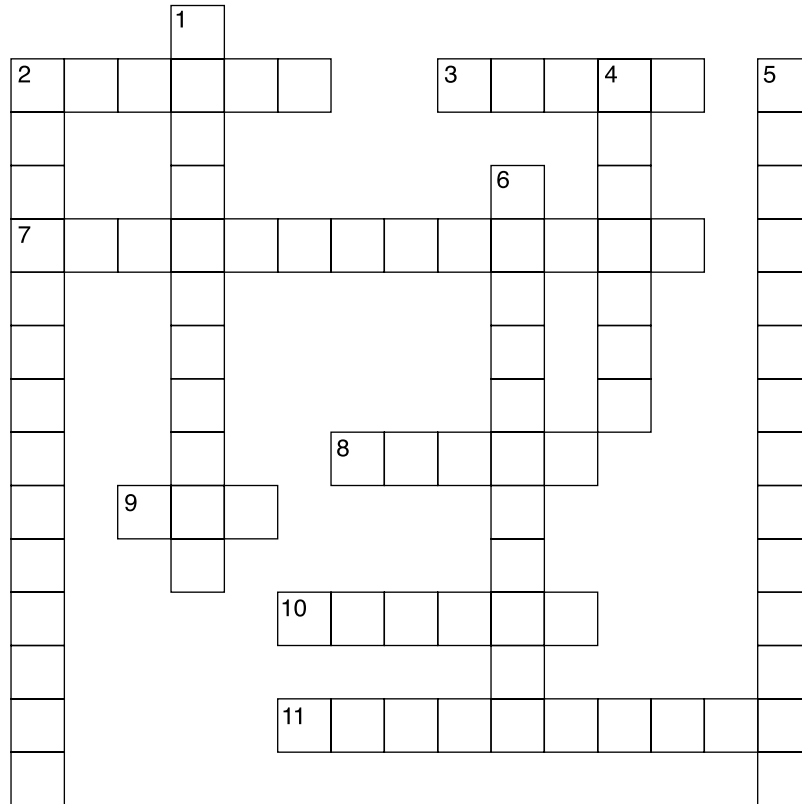


Chapter 17 The History of Life **Chapter Vocabulary Review**

Crossword Puzzle Use the clues below to complete the puzzle.



Across

- 2. time span shorter than an era, such as Quaternary _____
- 3. fossils used to compare the relative ages of fossils
- 7. theory that proposes that eukaryotic cells arose from living communities formed by several prokaryotes
- 8. measures evolutionary time: geologic time _____
- 9. span of geologic time that is subdivided into periods
- 10. record that provides evidence about the history of life on Earth
- 11. disappearance of many species at the same time: mass _____

Down

- 1. tiny bubbles formed by large organic molecules
- 2. scientist who studies fossils
- 4. describes a species that no longer exists
- 5. method used to determine a fossil's age by comparing its placement with that of fossils in other layers of sedimentary rock. (2 words)
- 6. process by which two species evolve in response to changes in each other over time

© Pearson Education, Inc. All rights reserved.

Completion *On the lines provided, complete the following sentences.*

- 12. Paleontologists use a technique called _____ to estimate a fossil's age by comparing it to other fossils.
- 13. A(An) _____ is the length of time required for half of the radioactive atoms in a sample to decay.
- 14. The use of half-lives to determine the age of a sample is a process called _____.
- 15. Microscopic fossils may also be called _____.
- 16. Large-scale evolutionary changes that take place over long periods of time are referred to as _____.
- 17. The process by which unrelated organisms come to resemble each other is called _____.
- 18. A species or small group of species evolves into many new species during _____.
- 19. The pattern of long stable periods interrupted by brief periods of more rapid change is known as _____.

Multiple Choice *On the line provided, write the letter of the answer that best completes the sentence or answers the question.*

- _____ 20. A species that is easily recognizable, existed for a relatively short period of time, and covered a wide geographic area may be used as a(an)
 - a. index fossil.
 - b. fossil record.
 - c. microfossil.
 - d. macrofossil.
- _____ 21. When a paleontologist measures the amount of an isotope present in a fossil, what dating technique is being used?
 - a. fossil dating
 - b. radioactive dating
 - c. relative dating
 - d. geologic dating
- _____ 22. We are currently living in the Cenozoic
 - a. era.
 - b. period.
 - c. year.
 - d. century.
- _____ 23. What is(are) measured in eras and periods?
 - a. relative dates
 - b. fossil record
 - c. Precambrian Time
 - d. geologic time
- _____ 24. Huge numbers of species disappear at once during
 - a. punctuated equilibrium.
 - b. mass extinctions.
 - c. coevolution.
 - d. adaptive radiation.