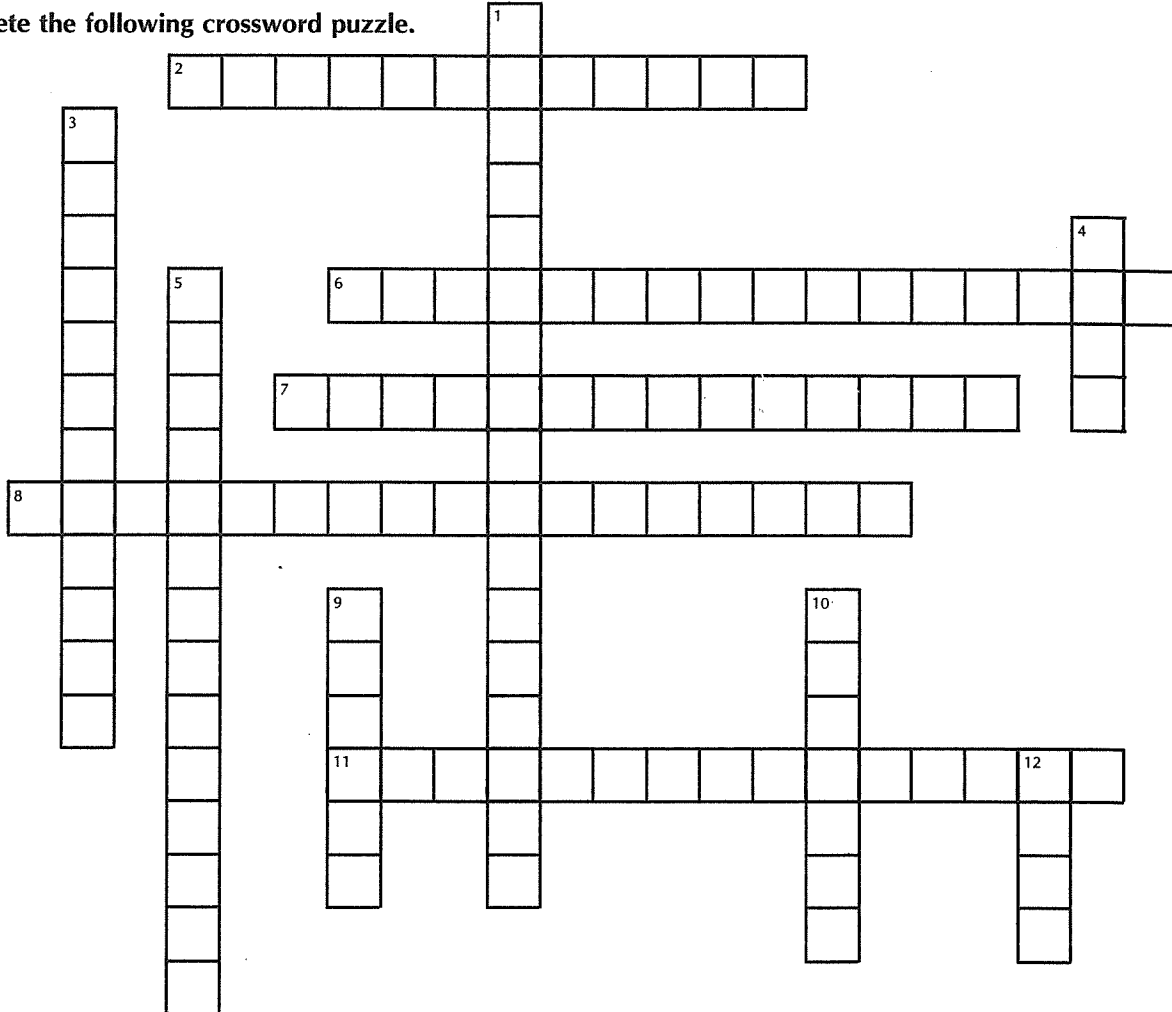


EVIDENCE OF EVOLUTION
28-1 Evidence from the Past

Part I: Vocabulary Review

Complete the following crossword puzzle.



ACROSS

- 2. Process by which remains of dead organism are turned to stone
- 6. Process of change that occurs in species over time
- 7. Method of determining the order in which events occurred
- 8. Slow change in the earth
- 11. Rock formed from layers of particles that settle on floor of a body of water

DOWN

- 1. Dating method based on rate of decay of radioactive isotopes
- 3. History of life
- 4. Hollow form left in rock after the remains of an organism decays
- 5. Method that determines how long ago an event occurred
- 9. Traces or remains of an organism preserved by natural processes
- 10. Fossil formed when an impression made in mud hardens into rock
- 12. Fossil formed when a mold fills with minerals and hardens, showing external features of original organism

Part II: Content Review

Select the best answer and write the letter in the space provided.

- _____ 13. What is a central and unifying theme of biology?
 a. geologic evolution
 b. evolution
 c. petrification
 d. unification
- _____ 14. What provides the strongest evidence of organic evolution?
 a. study of fossils
 b. study of life
 c. study of biosystems
 d. study of petrification
- _____ 15. How are the soft tissues of organisms sometimes naturally preserved?
 a. in molds and casts
 b. in sedimentary rock
 c. as imprints
 d. in amber or ice
- _____ 16. In which one of the following places would you expect the most fossils to form?
 a. lake and sea floors
 b. forest floors
 c. around volcanoes
 d. mountains
- _____ 17. In what kind of rock are most fossils found?
 a. igneous
 b. metamorphic
 c. sedimentary
 d. amber
- _____ 18. If layers of rock were undisturbed, where would you expect to find the oldest layers?
 a. top
 b. bottom
 c. middle
 d. above ground
- _____ 19. What is the half life of carbon-14?
 a. 5700 years
 b. 10 700 years
 c. 2700 years
 d. 100 years
- _____ 20. What isotope can be used to date fossils that are older than 50 000 years?
 a. carbon-14
 b. nitrogen-14
 c. uranium-238
 d. oxygen-18

Part III: Skills Development

Review the skill entitled "Graphic Organizing: Compare/Contrast Matrix" on pages 41–44. Then, complete the matrix shown below.

21.

CHARACTERISTIC	RELATIVE DATING	ABSOLUTE DATING
Purpose		
Method		