

Earth and Life History

Name:

Life Throughout Time

Period:

Use Chapter 9, Section 3 to help you answer the questions below.

Precambrian Time—Life Develops (p.279)

- _____ 1. About when did life first appear?
a. 1.8 billion years ago b. 2.7 billion years ago c. 3.6 billion years ago d. 4.5 billion years ago

Life and Oxygen (p.279)

- _____ 2. What did cyanobacteria add to the atmosphere?
a. oxygen gas b. radiation c. magnetic fields d. ultraviolet rays
- _____ 3. What did ozone do that helped life survive on land?
a. increased radiation b. reduced radiation c. increased oxygen d. reduced oxygen

Organisms That Are More Complex (p.279)

- _____ 4. In what way are cells of eukaryotes different from cells of prokaryotes?
a. They are larger. c. They have a nucleus.
b. They are smaller. d. They don't have a nucleus.



The Paleozoic Era (p.280)

- _____ 5. About how long ago was the Paleozoic Era?
a. 4.6 billion to 542 million years c. 251 to 65 million years
b. 542 to 251 million years d. 65 million years to today

The Cambrian Explosion (p.280)

- _____ 6. What kind of life flourished at the beginning of the Paleozoic Era?
a. mammals b. reptiles c. marine life d. birds
- _____ 7. When did life forms with shells and exoskeletons first appear?
a. during the Cambrian explosion c. during the Permian extinction
b. during the Cambrian extinction d. during the Permian explosion

Life on Land (p.280)

- _____ 8. What do fossils show were the first land animals?
a. dinosaurs b. arthropods c. fish d. humans
- _____ 9. In what era did all major plant groups, except for flowering plants, appear?
a. Archaean b. Cenozoic c. Mesozoic d. Paleozoic

The Permian Extinction (p.280)

- _____ 10. What was Earth's largest mass extinction that we know about?
a. the Tertiary extinction c. the Permian extinction
b. the Cretaceous extinction d. the Cambrian extinction
- _____ 11. What percentage of marine species became extinct during the Permian Extinction?
a. 90% b. 78% c. 50% d. 30%
- _____ 12. What percentage of land species became extinct during the Permian Extinction?
a. 90% b. 78% c. 50% d. 30%

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The Mesozoic Era (p.281)

- _____ 13. What animals survived from the Permian Period into the Mesozoic Era?
a. bacteria b. fungi c. reptiles d. mammals

Life in the Mesozoic Era (p.281)

- _____ 14. What are the best-known reptiles from the Mesozoic Era?
a. salamanders b. worms c. birds d. dinosaurs
- _____ 15. What plants formed large forests in the Mesozoic Era?
a. conifers b. ferns c. grass d. flowers

The Cretaceous-Tertiary Extinction (p.281)

- _____ 16. What organisms disappeared during the Cretaceous-Tertiary extinction?
a. all dinosaurs b. all animals c. all plants d. all fish
- _____ 17. What do scientists believe may have caused the Cretaceous-Tertiary extinction?
a. ultraviolet radiation from the sun c. competition from new predators
b. impact of an object from the solar system d. destruction of habitat by a major flood
- _____ 18. What is the fossil evidence that there was a Cretaceous-Tertiary extinction?
a. Fossils disappeared from the record. c. Cretaceous and Tertiary fossils are the same.
b. Fossils appeared in the record. d. One fossil was left in the record.

The Cenozoic Era (p.282)

- _____ 19. When did the Cenozoic Era begin?
a. 50,000 years ago b. 1 million years ago c. 40 million years ago d. 65 million years ago
- _____ 20. When did the Cenozoic Era end?
a. 50,000 years ago c. 40 million years ago
b. 1 million years ago d. The Cenozoic Era has not ended.
- _____ 21. Why do scientists know more about the Cenozoic Era than about earlier eras?
a. Cenozoic fossils are easy to find. c. Cenozoic fossils have not formed.
b. Cenozoic fossils are hard to find. d. Early humans left pictures.

The Age of Mammals (p.282)

- _____ 22. What is the Cenozoic Era sometimes called?
a. the Age of Discovery b. the Age of Reptiles c. the Age of Mammals d. the Age of Amphibians
- _____ 23. When did humans first appear?
a. early in the Cenozoic Era c. early in the Mesozoic Era
b. late in the Cenozoic Era d. late in the Mesozoic Era

The Cenozoic Era Today (p.282)

- _____ 24. In the Cenozoic Era, when did ice sheets move out from Earth's poles?
a. in the polar ages b. in the glacial ages c. in the ice ages d. in the Age of Reptiles
- _____ 25. How did many animals survive during the ice ages?
a. They migrated toward the equator. c. They hibernated through the ice ages.
b. They migrated toward the poles. d. They learned to live underwater.