

Life Throughout Time

Name:

Period:

Use Chapter 9, Section 3 of your textbook to answer the questions below.

Precambrian Time—Life Develops (p.279)

1. How many years ago was Earth formed? _____
2. About how many years ago did life first appear? _____

Life and Oxygen (p.279)

3. Cyanobacteria added _____ to Earth's atmosphere.
4. Look at Figure 5. 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)

5. 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)

6. What does the word Paleozoic mean? _____

The Cambrian Explosion (p.280)

7. _____ life forms appeared at the beginning of the Paleozoic Era.
8. Because some life forms now had _____ like shells or exoskeletons, we can now study fossils of them.

Life on Land (p.280)

9. Fossils show that the first animals on _____ were arthropods like scorpions.
10. During this era, all major _____ groups, except for flowering plants, appeared.
11. Towards the end of this era, _____ and _____ appeared.

The Permian Extinction (p.280)

12. Earth's _____ mass extinction that we know about was the Permian extinction.
13. The supercontinent _____ had formed during the Paleozoic Era.

turn over for more questions

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The Mesozoic Era (p.281)

14. What does the word Mesozoic mean? _____
15. What animals survived from the Permian Period into the Mesozoic Era? _____

Life in the Mesozoic Era (p.281)

16. The most famous reptiles from the Mesozoic Era are _____ .
17. _____ showed up in the Mesozoic Era and probably had dinosaurs as ancestors.
18. Conifers and _____ plants appeared in the Mesozoic Era.

The Cretaceous-Tertiary Extinction (p.281)

- _____ 19. What organisms disappeared during the Cretaceous-Tertiary extinction?
a. all dinosaurs b. all animals c. all plants d. all fish
20. We know that there was a Cretaceous-Tertiary extinction because many _____ disappeared from the fossil record.

The Cenozoic Era (p.282)

21. What does the word Cenozoic mean? _____
- _____ 22. 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)

23. What is the Cenozoic Era sometimes called? _____
24. Lots of _____ appeared in the Cenozoic Era, much like reptiles were successful in the Mesozoic Era.
25. Which famous mammals appeared late in the Cenozoic Era? _____

The Cenozoic Era Today (p.282)

26. Periods of time when the climate is very cold are called _____ .
- _____ 27. 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.