

CHAPTER REVIEW

Chapter 16

Geologic Time

I. Vocabulary Review

In the blank, write the word or words that best complete the sentence.

1. A major division in geologic time is called a(n) _____.
2. Sediments that have become molded into the shape of an organism form a(n) _____.
3. The remains or traces of an organism are called a(n) _____.
4. A gap in an area's geologic history is called a(n) _____.
5. The cavity in rock left after an organism has decayed is called a(n) _____.
6. An era is subdivided into _____.
7. The periods of the Cenozoic Era are subdivided into _____.

II. Concept Review

Answer the following questions in phrases or complete sentences.

8. Describe how a fossil forms. _____

9. When visiting the Grand Canyon, numerous rock layers are visible on the sides of the canyon. How do we know the relative ages of these layers? _____

10. What event marked the division between the Paleozoic and the Mesozoic Eras? _____

11. What major geologic event separates the Paleozoic from the Mesozoic Era? _____

12. Why is the Cenozoic Era divided into epochs? _____

13. What conditions on Earth can produce rock layers that seem to break the law of superposition?

Chapter Review 16 (continued)

14. Number the following from the least to the greatest time span.

- _____ Mesozoic Era _____ Paleozoic Era
 _____ Cenozoic Era _____ Precambrian Time

15. Number the following in historical order.

- _____ Mesozoic Era _____ Paleozoic Era
 _____ Cenozoic Era _____ Precambrian Time

III. Skills/Process Review

Answer the following questions in complete sentences.

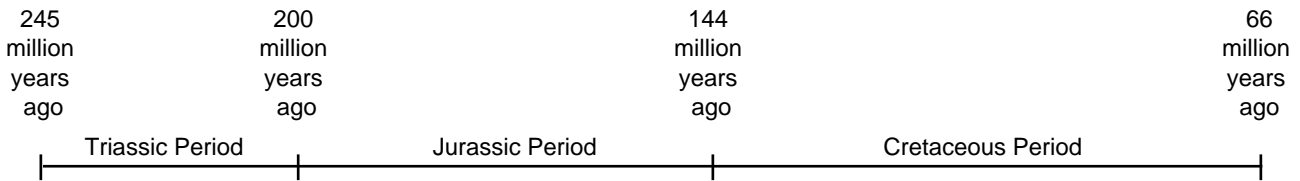


FIGURE 1

16. On the time line in Figure 1, write these events under the period in the Mesozoic Era in which they occurred: First birds, First dinosaurs, Rocky Mountains rise, First mammals, Extinction of dinosaurs.

17. What hypothesis did paleopathologists develop to account for bone death in a mosasaur?

18. A geologist finds a dinosaur fossil in one rock layer and a 500-million-year-old fossil of a bony plated fish in another nearby rock layer. Which rock layer is older? How do you know? _____

IV. EYV Review

19. **Science and Society: The Mysterious End of the Dinosaur Age** Although scientists do not agree on the cause for the disappearance of dinosaurs, they agree that there were large changes in one aspect of Earth's environment 66 million years ago. What changed and how are scientists applying this information? _____
