

**A Trip Through Geologic Time** ▪ *Review and Reinforce*

## Early Earth

### Understanding Main Ideas

Put the processes that occurred in early Earth's history in the correct sequence by writing their letters in the correct order in the blanks.

- A. Volcanic eruptions release carbon dioxide into the atmosphere.
- B. Early organisms release oxygen into the air.
- C. Oceans form on Earth's surface.
- D. Hydrogen and helium are captured by gravity to form an atmosphere.
- E. A dense, iron core forms at Earth's center.
- F. Earth is a ball of dust, rock, and ice in space.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

*Answer the following questions on a separate sheet of paper.*

- 7. What were the earliest life forms on Earth like?
- 8. What hypothesis explains why Earth and the moon are about the same age?
- 9. How did photosynthesis lead to the development of animals living on land?
- 10. How have scientists used radioactive dating to show that Earth is about 4.6 billion years old?

### Building Vocabulary

*Fill in the blank to complete each statement.*

- 11. A \_\_\_\_\_ is a ball of dust and ice that orbits the sun.
- 12. The process in which the continents move very slowly over Earth's surface because of forces inside Earth is called \_\_\_\_\_.

**A Trip Through Geologic Time** ▪ *Review and Reinforce*

# Eras of Earth's History

## Understanding Main Ideas

Fill in the blanks in the table below.

Event	Time or Era	Event	Time or Era
Mass Extinction at end of Permian Period	1.	First reptiles appear	6.
Vertebrates evolve	2.	Pangaea forms	7.
Age of Mammals	3.	Mass extinction at end of Cretaceous Period	8.
Age of Reptiles	4.	First snakes appear	9.
First grasses appear	5.	First birds appear	10.

Answer the following questions on a separate sheet of paper.

11. What was the Cambrian Explosion?
12. Describe the probable causes of two mass extinctions.
13. What animal group was most successful during the Mesozoic Era?
14. What created an opportunity for mammals in the Cenozoic Era?
15. Describe what mammals faced in the Quaternary Period.

## Building Vocabulary

Fill in the blank to complete each statement.

- |                      |   |
|----------------------|---|
| _____ 16. reptile    | a. animal that feeds its young with milk              |
| _____ 17. amphibian  | b. animal with strong legs and eggs with thick shells |
| _____ 18. mammal     | c. animal that evolved from lung fish                 |
| _____ 19. vertebrate | d. animal with a backbone                             |