

Chapter 14

The History of Life

Section 14.1 The Record of Life

Reinforcement and Study Guide

In your textbook, read about the early history of Earth.

For each statement below, write true or false.

1. Earth is thought to have formed about 4.6 billion years ago. _____
2. The conditions on primitive Earth were very suitable for life. _____
3. Geological events on Earth set up conditions that would play a major role in the evolution of life on Earth. _____
4. By the end of the Mesozoic, the continents took on their modern shape. _____
5. The first organisms appeared on land between 3.9 and 3.4 billion years ago. _____

In your textbook, read about a history in the rocks.

For each statement in Column A, write the letter of the matching item in Column B.

Column A

Column B

- | | |
|---|--------------|
| <p>6. A footprint, trail, or burrow, providing evidence of animal activity</p> | <p>_____</p> |
| <p>7. A fossil embedded in tree sap, valuable because the organism is preserved intact</p> | <p>_____</p> |
| <p>8. An exact stone copy of an original organism, the hard parts of which have been penetrated and replaced by minerals</p> | <p>_____</p> |
| <p>9. Any evidence of an organism that lived long ago</p> | <p>_____</p> |
| <p>10. The fossil of a thin object, such as a leaf or feather, that falls into sediments and leaves an outline when the sediments hardened</p> | <p>_____</p> |
| <p>11. An empty space left in rock, showing the exact shape of the organism that was buried and decayed there</p> | <p>_____</p> |
| <p>12. An object formed when a mold is filled in by minerals from the surrounding rock</p> | <p>_____</p> |

a. petrified fossil

b. imprint

c. trace fossil

d. cast

e. amber-preserved

f. fossil

g. mold