

Fossils

as you read

What You'll Learn

- List the conditions necessary for fossils to form.
- Describe several processes of fossil formation.
- Explain how fossil correlation is used to determine rock ages.
- Determine how fossils can be used to explain changes in Earth's surface, life forms, and environments.

hey It's Important

Fossils help scientists find oil and other sources of energy necessary for society.

Review Vocabulary

paleontologist: a scientist who studies fossils

New Vocabulary

- fossil
- mold
- permineralizedcast remains

 - index fossil
- carbon film

Traces of the Distant Past

A giant crocodile lurks in the shallow water of a river. A herd of Triceratops emerges from the edge of the forest and cautiously moves toward the river. The dinosaurs are thirsty, but danger waits for them in the water. A large bull Triceratops moves into the river. The others follow.

Does this scene sound familiar to you? It's likely that you've read about dinosaurs and other past inhabitants of Earth. But how do you know that they really existed or what they were like? What evidence do humans have of past life on Earth? The answer is fossils. Paleontologists, scientists who study fossils, can learn about extinct animals from their fossil remains, as shown in Figure 1.

Figure 1 Scientists can learn how dinosaurs looked and moved using fossil remains. A skeleton can then be reassembled and displayed in a museum.





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