



Types of Fossils

There are two main kinds of fossils: body fossils and trace fossils.

Body fossils show what an ancient organism looked like. These fossils formed when a living organism died and was quickly buried by mud, sand, or volcanic ash. Soft parts quickly decomposed. But the hard parts, like bones, remained.



Over time, minerals seeped into spaces in the hard parts. The minerals turned hard as stone. Layers of sediment piled up. Eventually, the land shifted or was worn away. This brought the fossils to the surface.



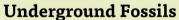
Body Fossils

Many body fossils are the preserved remains of animals, such as bones, teeth, and claws. But trees can make body fossils, too. Over time, the wood petrifies, or becomes as hard as stone.



Eggs and nests
can also become
fossils. Some
eggs are found
in nests; others
aren't. Some
nests are
grouped
together, while
others are all
alone. Sometimes,
fossils of adult animals

fossilized dinosaur eggs are found nearby. These trace fossils are clues that tell us about the animals, too.



Animal burrows are another type of trace fossil. They show how ancient animals lived and moved underground.





Believe it or not, paleontologists also learn a lot from studying fossilized poop.
Fossilized pieces of poop, called coprolites, are trace fossils. They can reveal what animals ate. Sometimes, poop has hidden treasures. Recently, scientists found a previously undiscovered species of beetle inside a coprolite. The beetle was 230 million years old!

Glossary

Amber

A hard yellow or brown fossil made from the resin of trees

Arid

Extremely dry

Body fossil

The preserved remains of dead plants or animals, such as bones, teeth, and claws

Carnivore

An animal that eats other animals

Cast fossil

A solid fossil formed when minerals fill a mold and harden in the shape of the organism

Coprolite

Fossilized poop

Excavate

To dig out and remove

Fossil

The preserved remains or traces of a plant or animal that lived long ago

Geologist

A scientist who studies Earth and how it has changed over time

Herbivore

An animal that eats only plants

Mold fossil

A fossil formed by an imprint of an organism's shape

Paleontologist

A scientist who studies plant and animal fossils to learn about the past

Petrified

Turned to stone

Preserved

Kept or saved from breaking down over time

Trace fossil

Preserved signs of an organism's activities or behavior, such as footprints or burrows

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