

# What Do Fossils Tell about Extinction?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Extinct Animals

- Although \_\_\_\_\_ of species have become extinct throughout Earth's history, you will talk about only a few groups of them in this lesson.
- The first group, the \_\_\_\_\_, consisted of small organisms that lived in shallow seas long ago.
- The other two groups included some of the \_\_\_\_\_ organisms that ever lived on land, such as the dinosaurs and woolly mammoths.

## Extinct Animals: Trilobites

- Trilobites were \_\_\_\_\_ arthropods that were found preserved throughout the Paleozoic layers of the geologic column.
- Although they are sometimes compared to the horseshoe crab, trilobites are \_\_\_\_\_ any creature alive on Earth today.
- The word *trilobite* means \_\_\_\_\_ lobes, which accurately describes the bodies of these arthropods.
- The existence of trilobites in the fossil record provides evidence that is consistent with the \_\_\_\_\_ view of Earth's history.
- Their complexity, their \_\_\_\_\_ early in the fossil record without evidence of evolutionary ancestors, and their amazing preservation are compatible with the biblical accounts of Creation and the Flood.

## Extinct Animals: Dinosaurs

- Dinosaurs have fascinated people for many years.
- In the nineteenth century, scientific attention turned to new discoveries made in along the coast of \_\_\_\_\_.
- A 10-year-old named Mary Anne Mantell found a large reptile in 1822.
- Her find was named *Iguanodon* because the teeth resemble the teeth of an lizard.
- Sir Richard Owen studied the \_\_\_\_\_ found by Mantell and by others.
- He made models for the Crystal Palace exhibition and first coined the name “\_\_\_\_\_”.
- While scientists were studying these new finds, North America had its own dinosaur \_\_\_\_\_!

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- Two important \_\_\_\_\_ dinosaur hunters were O. C. Marsh and Edward Drinker Cope.
- They began competing to find the biggest and best \_\_\_\_\_ to exhibit.
- Often in their zeal, the same dinosaur was named \_\_\_\_\_.
- For example, Apatosaurus and Brontosaurus were two names for the \_\_\_\_\_ animal.
- Since these early discoveries, many dinosaur fossils have been found in every region and continent, even on \_\_\_\_\_.
- Many more remain \_\_\_\_\_, waiting to be found.
- These reptiles probably \_\_\_\_\_ greatly in size and in appearance.
- The fossil bones can provide \_\_\_\_\_ data about the size and body plan of these animals.
- Scientists generally classify dinosaurs into two main groups based on the shape of their \_\_\_\_\_ bones:
  - The *Ornithschian* (\_\_\_\_\_ -hipped)
  - The *Saurischian* (\_\_\_\_\_ -hipped)
- Both groups stood erect with their legs held \_\_\_\_\_ their bodies.
- However, as far as their appearance and behavior are concerned, there is a lot of \_\_\_\_\_ involved in what you see in museums or in reconstructions.
- For example, skin prints can provide clues about skin texture, but scientists must use their \_\_\_\_\_ and knowledge about living organism to fill in missing details like coloring, striping, or camouflage patterns.
- \_\_\_\_\_ can help us figure out how they might have moved.
- Fossilized \_\_\_\_\_ contents can suggest what foods they ate.

Extinct Animals: Ornithschian Dinosaurs

- Recall that scientists generally classify dinosaurs into two groups based on features.
- The Ornithschians or **bird-hipped dinosaurs**, as their name suggests, had a hip structure like \_\_\_\_\_.
- Most of these dinosaurs ate \_\_\_\_\_ and many had bony plates on their skin.
- \_\_\_\_\_ were one group of bird-hipped dinosaurs.
- Stegosaurs walked on \_\_\_\_\_, had small heads, and short necks.
- \_\_\_\_\_ plates on their backs or heads are thought to have been used for defense or to perhaps regulate body temperature.

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- Hadrosaurs were another group of bird-hipped dinosaurs common in \_\_\_\_\_ North America.
- These animals had \_\_\_\_\_ beaks and hundreds of teeth in their mouths.
- Fossils evidence indicates that Hadrosaurs called Maiasaura took \_\_\_\_\_ of their young.