

Evidences for Evolution Lab

Introduction:

Unfortunately, we cannot repeat nature's experiments of evolution; however there is a vast amount of evidence, mostly indirect, to support the theory. If modern organisms descended from ancestral organisms then we should see similarities between organisms in the fossil record. Also, we should be able to see more similarities amongst different types of organisms that live today if they have evolved from a common ancestor more recently. Each part of this lab will explore one of the major sources of evidence that support the theory of evolution.

PART A: The Fossil Record and the Age of the Earth

Fossils are the remains of long-dead organisms that have escaped decay and become part of the Earth's crust. Thus, fossils are evidence of organisms that lived long ago. Paleontologists, scientists who study ancient life, use fossils to understand events that happened long ago. They use fossils to determine the kinds of organisms that lived during the past and sometimes to learn about their behaviour. For example, fossil bones and teeth can indicate the size of animals, how they moved, and what they ate. Paleontologists also study fossils to gain knowledge about ancient climate and geography. For instance, if they find a fossil which resembles a present-day plant that lives in a mild climate, they may reason that the ancient environment was also mild.

Use the information above and at Station A to answer the following questions:

1. Define fossil:

The remains of an animal or plant that has been preserved in the earth's crust.

2. What normal processes must permanently stop for fossils to form and how can this happen?

Decay. This can happen if the remains are isolated from the air or water and decomposing microbes are prevented from breaking them down.

3. Explain how each of the following preservation processes can result in formation of fossils:

- a. Amber -Gum from conifers traps insects and then hardens
- b. Tar Pit-Animals fall into and are trapped in mixture of tar and sand.

4. How could fossils be used to determine an animal's diet?

The fossil teeth used to determine an animal's diet, because teeth are directly involved in the mechanical breakdown of food.

5. Proboscideans' ancestors were small and trunkless. Why did the group become larger as they evolved?

The group became larger because their descendants invaded all continents except Antarctica and Australia.

6. What is meant by a **transitional fossil**?

Transitional fossil is a mixture of traits that are found in two different, but related, taxonomic groups.

7. Recent fossil discoveries support the idea that modern birds evolved from one of the groups of dinosaurs near the end of the **Mesozoic Era**. Observe the picture of the fossil **Archaeopteryx**, a prehistoric bird.

List 2 **Reptilian** features and 2 **Avian** features:

Reptilian-1. Breastbone is small and lacks a keel. 2. Forelimb has 3 functional fingers with grasping claws.

Avian-1. Impressions of feathers attached to the forelimb. 2. Incomplete fusion of the lower legs bones.

Evidence Of Evolution Lab 38 Answers

K Morrison



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