

Comparing Primates

Introduction

In *The Descent of Man*, the English naturalist Charles Darwin formulated the hypothesis that humans and other primates have a common ancestor. All scientific hypotheses, including this one, are tested by observations. For example, observations of fossils lend support to Darwin's hypothesis of human origins.

Darwin observed that despite common ancestry, human beings and other primates differ in many important ways. Although all primates have opposable thumbs, the human hand is capable of more refined and exact movements than those of other primates. The human braincase, or cranium, has more volume than those of other primates. Human beings are bipedal, or able to walk on two limbs. Other primates use all four limbs for locomotion. Being bipedal frees the arms and hands for other tasks, such as toolmaking. Darwin regarded these human traits as adaptations, resulting from natural selection. The adaptations of other primates, he suggested, evolved differently.

In this investigation, you will examine the skeletal features of different primates in order to understand the evolutionary relationships among them.

Problem

How can skeletal evidence be used to understand the evolutionary relationships of primates?

Pre-Lab Discussion

Read through the entire investigation. Then, work with a partner to answer the following questions.

1. What hypothesis did Charles Darwin formulate about evolutionary relationships between humans and other primates?

2. What characteristics of primates will be examined in this investigation?

3. How do the hand and cranium of humans differ from those of other primates? Suggest what behaviors these traits might allow.

Comparison Of Primates Lab Answers

JL Elias



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