

Chapter 33 Comparing Chordates**Observing Vertebrate Skeletons**

You may want to refer students to Section 33-3 in the textbook before performing this investigation.
Time required: 45 minutes

Introduction

The body plans of all vertebrates are similar in some ways. One characteristic shared by all vertebrates is the presence of a skeleton. The skeleton of a vertebrate is an endoskeleton, or internal skeleton. It is made up, in part, of living cells and thus is able to grow. It is not shed as are many exoskeletons. The endoskeleton provides support, protects the internal organs, and is a site for the attachment of muscles.

Skeletal similarities are evidence that these different animals have evolved from a common ancestor. Structures such as bones that have a common origin but different function are called homologous structures.

In this investigation, you will compare the skeletons of several different vertebrates and look for evidence of homologous structures. You will also classify unknown bone specimens.

Problem

If actual skeletons or models are available, they should be used in conjunction with this investigation. Vertebrate skeletons can be obtained from a biological supply house.

What are the similarities and differences among vertebrate skeletons?
What homologous structures can be identified on these skeletons?

Pre-Lab Discussion

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

1. What will you be comparing in this investigation?

The skeletons of a human, a frog, a crocodile, a pigeon, a cat, and an unknown animal.

2. What do the animals you will be studying in this investigation all have in common?

They are all vertebrates.

3. What evidence will you be looking for to demonstrate that vertebrates share a common ancestor?

The presence of homologous structures.

4. Based on the investigation title and the other animals you will be studying in this investigation, from what group of animals will the mystery bones come?

The mystery bones are part of a vertebrate.

5. How will you determine which parts of the skeleton the mystery bones come from?

By comparing them to the bones in the skeletons that are illustrated.

Observing Vertebrate Skeletons Lab Answers

Huangqi Zhang



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