

INTRODUCTION: Evidence has been found to indicate that living things have changed gradually during their natural history. The study of fossils as well as embryology, biochemistry, and comparative anatomy provides evidence for evolution. In this lab activity you will learn about homologous, analogous, vestigial structures, fossils, embryology and biochemistry and their significance in evolution theory.

PROCEDURE:**HOMOLOGOUS STRUCTURES**

1. Carefully examine the drawings of the bones. Look for similarities among the various animals.
 - a. **COLOR** each part of the human arm a different color using the following key.
 Humerus: Yellow Carpals: Red Radius: Blue Ulna: Green
 Metacarpals: Purple Phalanges: Orange
 - b. In Table 1 (question #2 on the Answer Sheet describe the function of each set of bones and answer the question.)
 - c. Answer question number 3

ANALOGOUS STRUCTURES

1. Examine the butterfly wing and the bird wing. Answer questions 4-6 on the answer sheet.

**VESTIGIAL STRUCTURES**

1. Gradual changes have occurred through time that have in some cases reduced or removed the function of some body structures and organs. The penguin's wings and the leg bones of snakes are examples of this phenomenon.
2. The cave fish and minnow are related, but the cave fish is blind. Answer questions 7-8 on the answer sheet.



Figure 3

3. Read the list of human vestigial structures in Table 2 (question #9). Suggest a possible function for each structure and explain why it became vestigial. Then complete questions 10-12

EVIDENCE FROM EMBRYOLOGY

1. Evolution occurs slowly. In most cases, it is not possible to observe evolution in progress. However, evidence of evolution can be found by observing the early stages of development in vertebrates. All vertebrate embryos start out similar in appearance. This similarity has led scientists to think that these organisms have a common ancestor. The diagrams below illustrate stages in the embryonic development of a fish, a pig, and a human.
2. Study the diagrams below and answer the questions 13 & 14 on the answer sheet.



Lab Evidence Of Evolution Answer Key

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Lab Evidence Of Evolution Answer Key:

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