

EVIDENCES OF EVOLUTION LAB



I. PURPOSE: What are the 6 Evidences of Evolution?

BACKGROUND: Evidence has been found to indicate that living things have changed gradually during their natural history. The studies of fossils as well as embryology, biochemistry, anatomy, geographic distribution and current observations of natural selection provide evidence for evolution.

II. MATERIALS: Copy of Figure 1, copy of Table 1, copy of Table 2, copy of Table 3

III. PROCEDURES:

Attach Figure 1, Table 1 and Table 2 in your Data and Observations section. Then read through each section of the INSTRUCTIONS and complete tables or answer questions as instructed. Record table information in the DATA and OBSERVATIONS section of your lab. After answering questions 1-19, complete Table 3 and attach in the Questions section before completing the Discussion and Conclusion.

INSTRUCTIONS:

SECTION 1 : EVIDENCE FROM COMPARATIVE ANATOMY

By comparing anatomical structures, evolutionary links can be established between groups of organisms. These comparisons include examining Homologous Structures, Analogous Structures and Vestigial Structures.

a. HOMOLOGOUS STRUCTURES

The structures in FIGURE 1 are *formed* in similar ways during embryonic development and share like arrangements; however, they have somewhat different forms and functions. They are called homologous structures.

1. Carefully examine the drawings of the bones in FIGURE 1. Look for *similarities* among among the various animals. COLOR each part of the human arm a different color. Color all the bones of the wrist another color and the bones of the phalanges (fingers) yet another color. Then color the corresponding bone in each of the other animals the same color as those in the human bone. Attach FIGURE 1 in your Data and Observations Section
2. In Table 1, describe the function of the phalanges (fingers) of each set of bones.
3. Answer questions 1 and 2.

b. ANALOGOUS STRUCTURES

Some apparently unrelated animals have organs with similar function, yet are very different in structure and form. These structures are called analogous structures.

1. Examine FIGURE 2 of the moth wing and the bat wing. Answer questions 3-5.

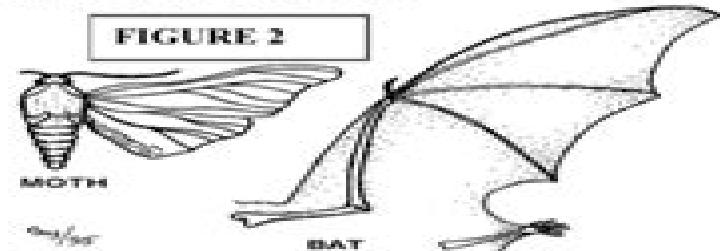


FIGURE 2

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Stanford University

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Catalogue of the University of Michigan University of Michigan,1936 Announcements for the following year included in some vols **University of Michigan Official Publication** ,1939 General Register University of Michigan,1912

Announcements for the following year included in some vols **Biology Laboratory Manual** Sylvia S. Mader,2000-07
Mader includes revised coverage of animal behaviour and ecology as well as a wealth of new focus boxes which highlight topics of high interest and relate biology to everyday life This text is linked to a web site offering extended chapter outlines

College of Literature, Science, and the Arts University of Michigan. College of Literature, Science, and the Arts,1902

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Starr's Biology Concepts and Applications James W. [et. al]. Perrry,2002 **Yearbook** Grand Rapids (Mich.). Theological
School and Calvin College,1929 **Announcement** Science & Art University of Michigan. College of Literature,1905

Bulletin University of Wisconsin--Madison. College of Letters and Science,1926 **Bulletin** Stanford University,1911

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