

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.

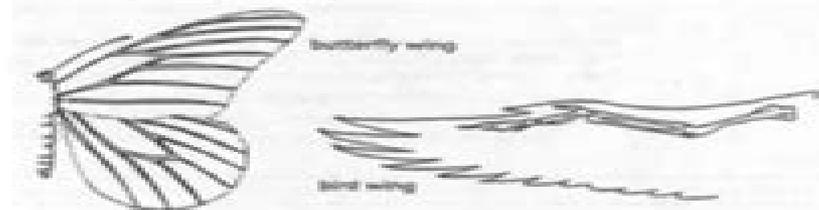
PROCEDURE:

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.



Evidence Of Evolution Lab Key

Robert E. Shadwick, George V. Lauder

Evidence Of Evolution Lab Key:

The Molecular Life of Diatoms Angela Falciatore, Thomas Mock, 2022-05-11 Diatoms are the most species rich group of algae and they contribute about 20% of annual global carbon fixation They play major roles in ocean food webs and global biogeochemical cycles They are also a target of the biotechnology industry because of their nano patterned silica cell wall and high lipid content Diatoms have received increasing attention as more genomes became available and because of the development of genome editing tools such as the CRISPR Cas9 technology which has made diatoms as genetically tractable as well established biological model species This book provides an overview on diatom molecular biology It brings together international leading experts in the field to discuss the latest data and developments from genes to ecosystems As the understanding of diatoms is currently experiencing a step change it is critical to allow for synergistic approaches on diverse aspects of diatom biology and evolution The books offers fundamental insights into the molecular life of diatoms at the same time new scientific concepts are developed based on the application of the latest molecular tools and genomic information to explore the fascinating lifestyle of diatoms

Encyclopedia of Astrobiology Muriel Gargaud, Ricardo Amils, 2011-05-26 Astrobiology is a remarkably interdisciplinary field This reference serves as a key to understanding technical terms from the different subfields of astrobiology including astronomy biology chemistry the geosciences and the space sciences [71st AACC Annual Scientific Meeting & Clinical Lab Expo](#) American Association for Clinical Chemistry (AACC), 2019-07-11 The poster abstracts accepted for the 71st AACC Annual Scientific Meeting Clinical Lab Expo AACC is a global scientific and medical professional organization dedicated to clinical laboratory science and its application to healthcare Our leadership in education advocacy and collaboration helps lab professionals adapt to change and do what they do best provide vital insight and guidance so patients get the care they need

Evolution and the Big Questions David N. Stamos, 2011-09-23 *Evolution and the Big Questions* David N Stamos s *Evolution and the Big Questions* delivers what its title promises you get to look at all of the issues such as race and ethics and religion that make the study of evolution so interesting and more than just a science The book is written in a clear and friendly manner and deserves a very wide readership Michael Ruse Florida State University This provocative text considers whether evolutionary explanations can be used to clarify some of life s biggest questions It offers a lively informative and timely look at a wide variety of key issues facing all of us today including questions of race sex gender the nature of language religion ethics knowledge consciousness and ultimately thc meaning of life Some of the questions examined are Did evolution make men and women fundamentally different Is the concept of race merely a social construction Is morality including universal human rights a mass delusion Can religion and evolution really be harmonized Docs evolution render life meaningless Designed for students and anyone with an interest in the relationship between evolutionary heritage and human nature the text takes an interdisciplinary approach and offers direction for further reading and research Each chapter presents a main topic together with discussion of related ideas and arguments from

various perspectives Along the way it poses life s biggest questions pulling no punches and presenting a challenge to thinkers on all levels

Biology Joseph S. Levine, Kenneth R. Miller, 1998 **Teacher's Wraparound Edition: Twe Biology**

Everyday Experience Albert Kaskel, 1994-04-19 Reports of the National Center for Science Education ,2005

Evolution of Life Michael L. McKinney, 1993 Designed for the beginner and non scientist this text offers a broad systematic and non technical coverage of the principles of evolution from the genetics of fossils to modern extinctions and biotechnology with particular emphasis on relevance to modern society *Darwin Strikes Back* Thomas Woodward, 2006-11 Thomas Woodward traces the continuing saga of the ID movement in Darwin Strikes Back helping readers navigate the tangled maze of public debate and showing them what might be coming next

The Software Encyclopedia 2000 Bowker Editorial Staff, 2000-05 *American Entomologist* ,2004

Science John Michels (Journalist), 1888 Since Jan 1901 the official proceedings and most of the papers of the American Association for the Advancement of Science have been included in Science *The Flaming Sword* ,1928 Annual Report University of California, Los Angeles. Molecular Biology Institute, 2009

Fish Physiology: Fish Biomechanics Robert E. Shadwick, George V. Lauder, 2006-02-02 The first in two decades to exclusively integrate physiological and biomechanical studies of fish locomotion feeding and breathing making this book both comprehensive and unique Fish Physiology Fish Biomechanics reviews and integrates recent developments in research on fish biomechanics with particular emphasis on experimental results derived from the application of innovative new technologies to this area of research such as high speed video sonomicrometry and digital imaging of flow fields The collective chapters written by leaders in the field provide a multidisciplinary view and synthesis of the latest information on feeding mechanics breathing mechanics sensory systems stability and maneuverability skeletal systems muscle structure and performance and hydrodynamics of steady and burst swimming including riverine passage of migratory species Book presents concepts in biomechanics a rapidly expanding area of research First volume in over twenty years on this subject Multi author volume with contributions by leaders in the field Clear explanations of basic biomechanical principles used in fish research Well illustrated with summary figures and explanatory color diagrams

General Catalog -- University of California, Santa Cruz University of California, Santa Cruz, 2008 *Biological Science, an Ecological Approach* Biological Sciences Curriculum Study, 1992 A collection of copy masters designed to supplement and extend the test material in a variety of ways Each item is keyed to the most closely related chapter

Archives of Pathology & Laboratory Medicine ,2008 **Newsletter** ,2003

Biology of the Snapping Turtle (Chelydra Serpentina) Anthony C. Steyermark, Michael S. Finkler, Ronald J. Brooks, 2008-03-31 This volume synthesizes all that is known about the common snapping turtle to provide an up to date and comprehensive resource on the species evolution physiology behavior and life history Anthony C Steyermark Michael S Finkler Ronald J Brooks and a team of experts detail the systematics energetics growth patterns sex determination and population genetics of snapping turtles and devote special attention to the fossil record of the snapping

turtle family Chelydridae

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<https://blog.gospelcrusade.org/book/Resources/fetch.php/Hngry%20Grass.pdf>

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