

## Biology Dry Lab: EVIDENCE OF EVOLUTION

**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.

**OBJECTIVES:** In this lab activity you will learn about homologous, analogous, vestigial structures, fossils, embryology and biochemistry and their significance to evolution theory.

**MATERIALS:** Map Pencils

**PROCEDURES:**

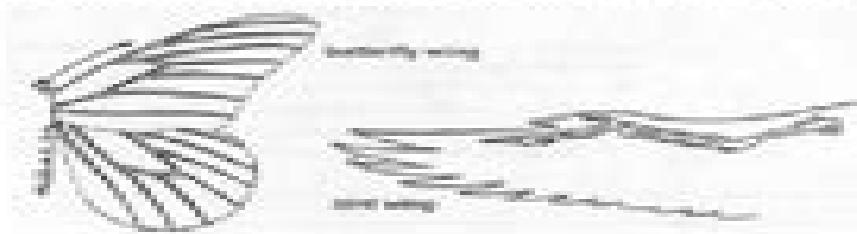
### I. COMPARATIVE ANATOMY

#### HOMOLOGOUS STRUCTURES

1. Carefully examine the drawings of the bones. Look for similarities among the various animals in COLOR: each part of the human arm is a different color. (All bones of the wrist should be the same color, the bone groups of the hand should be a different single color.) Then color the corresponding bone in each of the other animals the same color as the human bone.
2. In Table 1 (question #2 on the answer sheet) describe the function of each set of bones and answer the questions.

#### ANALOGOUS STRUCTURES

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



#### VESTIGIAL STRUCTURES

Gradual changes have occurred through time that have in some cases reduced or removed the function of some body structures and organs. The uterine tube, teeth and the leg bones of snakes are examples of these phenomena.

4. The catfish and minnow are related, but the catfish is blind. Answer questions 7-8 on the answer sheet.

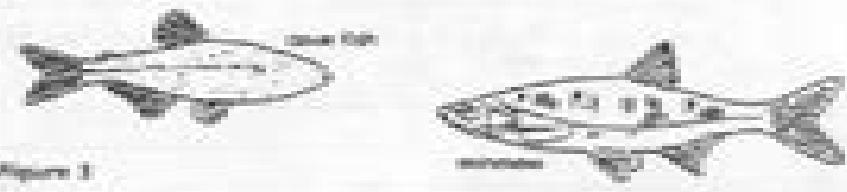


Figure 1

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

#### EVIDENCE FROM EMBRYOLOGY

Evolution occurs slowly. In most cases, it is not possible to observe evolution in progress. However, evidence

## And 16 Evolution Answer

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*Neti Neti Answers To Devotees In Seach Of God* Har Prem Pal Singh And Arvind Moladia,2023-09-08     [The junior student's algebra. \[With\] Answers to the examples](#) Alexander Wilson (M.A.),1886     [GATE Question Bank - Ecology & Evolution](#) Mocktime Publication, 2400 MCQs GATE Ecology Evolution Chapterwise Question Bank Based on New Syllabus

**Evolution and Religious Creation Myths : How Scientists Respond** Paul F. Lurquin School of Molecular Biosciences Washington State University,Linda Stone Department of Anthropology Washington State University,2007-06-08 Polls show that 45% of the American public believes that humans were created about 10 000 years ago and that evolution is non existent Another 25% believes that changes in the natural world are directed by a supernatural being with a particular goal in mind This thinking clashes frontally with scientific findings obtained in the past 150 years A large portion of the general public espouses the views of creationists and their descendants and ignores or is unaware of scientific advances Critical thinking about the natural world within a scientific framework is lacking in the USA and many parts of the world This manuscript provides a multidisciplinary explanation and defense for the science of evolution not just Darwinism as it is being challenged by arguments for intelligent design and other creation myths It draws in the life physical and social sciences and recent studies of human evolution that rely much on the idea of change over time which is evolution writ large It puts the evolution ID issue into international perspective by including opinions held in world religions other than Christianity It is clearly written and also can easily be used as a guide for those with some science background The authors make a convincing case that other books do not achieve this as much as they do in this work The book is written for a whole spectrum of educated people including teachers and teachers in training who are interested in the broad issues of the origins of the universe life and humans and who may not quite grasp the potential magnitude of the negative influence on all of science education of people embracing creationist and ID thinking This includes high school teachers and people on boards of education and in municipal governments anyone involved in education It could be used also in college courses such as contemporary social issues and Science and Society sometimes team taught by sociologists and scientists The authors show that when they are teleological dogmatic or politically inspired religious and creation myths threaten scientific efforts The book does not require any extensive knowledge of science The principle of change over time pervades all of science from cosmology to the search for the origin for life to human physical and cultural evolution The book educates readers on scientific matters that overwhelmingly support the idea of evolution not only in the living world but also in physical and social science It explains too how evolution physical and biological is a random unguided process whose roots can be already found in quantum physics     [The Doctrine of Evolution: Its Data, Its Principles, Its Speculations, and Its Theistic Bearings](#) Alexander Winchell,1874     [Longmans' school arithmetic, by F.E. Marshall and J.W. Welsford \(With answers\).](#) Frank Edward Marshall,1892     **Oswaal NCERT Exemplar (Problems - Solutions) Class 12 Physics, Chemistry and Biology (Set of**

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**Questions and Answers for Matriculation and Responses, Etc. (Selected ... from Papers which Have Been Set ... at Oxford.).** University of Oxford,1873 **Answers to Practical arithmetic for senior classes. With Tables on the decimal coinage** Henry G. C. SMITH,1873

**A Treatise on Chemistry and Chemical Analysis: Answers to questions** ,1900 **Information Modelling and Knowledge Bases**

XXIX V. Sornlertlamvanich,P. Chawakitchareon,A. Hansuebsai,2018-02-09 Information modelling and knowledge bases have become ever more essential in recent years because of the need to handle and process the vast amounts of data which now form part of everyday life The machine to machine communication of the Internet of Things IoT in particular can generate unexpectedly large amounts of raw data This book presents the proceedings of the 27th International Conference on Information Modelling and Knowledge Bases EJC2017 held in Krabi Thailand in June 2017 The EJC conferences originally began in 1982 as a co operative initiative between Japan and Finland but have since become a world wide research forum bringing together researchers and practitioners in information modelling and knowledge bases for the exchange of scientific results and achievements Of the 42 papers submitted 29 were selected for publication here and these cover a wide range of information modelling topics including the theory of concepts semantic computing data mining context based information retrieval ontological technology image databases temporal and spatial databases document data management software engineering cross cultural computing environmental analysis social networks and WWW information The book will be of interest to all those whose work involves dealing with large amounts of data **Answers to the 4 Big Questions** ,2000

**Algebra for the use of schools and colleges. [With] Answers to the exercises** William Thomson (M.A., B.Sc.),1886

**Chapter Resource 13 Theory/Evolution Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

**Answers to Evolution** Rose Publishing,2022-05-31 Responses to Darwinism in the classroom Almost every middle school and high school student is required to study evolution two or three times The science textbooks used in most public schools teach that Darwin s theory of evolution is basically correct and should be accepted without question This pamphlet Answers to Evolution is based on actual California public school biology textbooks The pamphlet answers each argument point by point Written for youth in a clear concise way it is excellent for students to use when writing science reports and papers Teach your youth group ways to respectfully point out errors in Darwinism Give them dozens of quotes from respected

scientists to prove their points Help them to see that adaptations in birds beaks and moths wing colors do not prove that evolution is a fact Questioning the Answers Maureen A. Hays,Paul T. Thacker,2001 A collection of 18 papers taken from a symposium at the SAA meeting in Chicago in 1999 Together they address the fundamental problems within the study of the European Early Upper Palaeolithic both in terms of theoretical and methodological approaches Engineering Mechanics ,1890 **Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical Engineering** ,1891 Journal of Institutional and Theoretical Economics ,1992

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