

**Timing:** 2 x 45 minute lessons

## Background

Evolution can be defined as the change in the frequency of one or more alleles in a population's gene pool from one generation to the next, due to natural selection. There are three main types of evolution: **divergent**, **convergent**, and **parallel**.

In convergent evolution, unrelated species become increasingly similar in appearance because of a shared environment. Convergent evolution results in **analogous** structures that carry out a similar function but are not similar in basic structure. This is because they are not inherited from a common ancestor. For example, sharks, porpoises, and penguins are not related through a common ancestor, but they all have peripheral fins and bodies that are similar in shape. These traits are a direct result of adapting to aquatic life. Similarly, wings developed independently in insects, reptiles, birds and bats.

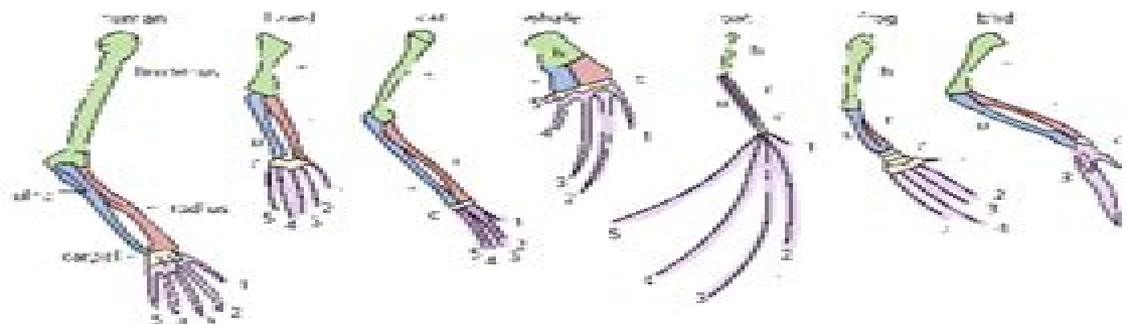
In divergent evolution, two or more species develop from a common ancestor. This happens through adaptation to different environments. Divergent evolution results in **homologous** structures. These are shared by related species because they have been inherited from a common ancestor. For example, the forearms of various vertebrates are homologous because they have similar bone structures but different functions.

Parallel evolution is the development of the same characteristic in unrelated organisms through adaptation to similar environmental conditions. For example, the marsupial mammals of Australia are similar to the placental mammals from other parts of the world. However, marsupials in Australia evolved in isolation after Australia separated from the other continents.

**Aim** To analyse how different types of evolution give rise to homologous and analogous structures.

**Equipment** • diagrams and specimens of homologous structures • paper and coloured pencils  
 • structures and analogous structures

## Part A – Homologous structures due to divergent evolution



**Figure 1: Homologous structures**

## Method

1. Colour the homologous bones in Figure 1. Use green for the humerus, red for the radius, blue for the ulna, yellow for the carpals and metacarpals, purple for the phalanges.
2. Compare the bones in the human forearm with the bones in the forearms of the other vertebrates in Figure 2. Note the similarities and differences in bone structure, including the relative size and thickness of the bones. Record your results in Table 1.

# Hominid Evolution Assignment Grade 1

**T. J. Crow**



## **Humind Evolution Assignment Grade 1:**

Human Evolution Camilo J. Cela-Conde, Francisco J. Ayala, 2007-09-27 This book is intended as a comprehensive overview of hominid evolution synthesising data and approaches from physical anthropology genetics archaeology psychology and philosophy Human evolution courses are now widespread and this book has the potential to satisfy the requirements of most particularly at the advanced undergraduate and graduate level It is based on a translation albeit with substantial modification of a successful Spanish language book *Biological Anthropology of the Human Skeleton* M. Anne Katzenberg, Shelley R. Saunders, 2011-09-23 This book is virtually required reading for biological anthropologists and will be a useful up to date primer on osteological analyses for a wider audience The Quarterly Review of Biology March 2009 a comprehensive guide to the ever changing discipline of physical anthropology provides an in depth introduction to human skeletal biology The structure of the book makes it easy for the reader to follow the progression of the field of human skeletal biology PaleoAnthropology 2009 Issue The First Edition of Biological Anthropology of the Human Skeleton is the market leading reference and textbook on the scientific analysis of human skeletal remains recovered from archaeological sites Now featuring scores of new or thoroughly revised content this Second Edition provides the most comprehensive and up to date coverage of the topic available Like the previous edition this Second Edition is organized into five parts with contributing chapters written by experts in the field of human skeletal biology Part One covers theory and application Part Two discusses morphological analyses of bone teeth and age changes Part Three reviews prehistoric health and disease Part Four examines chemical and genetic analysis of hard tissues and Part Five closes with coverage of quantitative methods and population studies Each chapter includes a review of recent studies descriptions of analytical techniques and underlying assumptions theory methodological advances and speculation about future research New or thoroughly revised content includes Techniques in the analysis of human skeletal and dental remains Extensive coverage of new technologies including modern morphometric techniques Advances in the field of forensic anthropology Enhanced discussion of ethical terms regarding the study of aboriginal peoples remains where those people are no longer the dominant culture This book serves as an indispensable research guide to biological anthropologists osteologists paleoanthropologists and archaeologists Now with a stronger focus on teaching complex material to students this revised edition provides enhanced case studies and discussions for future directions making it an invaluable textbook for advanced undergraduates and graduate students in biological anthropology and forensic anthropology programs The Speciation of Modern Homo Sapiens T. J. Crow, 2004-01-08 This is the first volume to address directly the question of the speciation of modern Homo sapiens The subject raises profound questions about the nature of the species our defining characteristic it is suggested it is language and the brain changes and their genetic basis that make us distinct The British Academy and the Academy of Medical Sciences have brought together experts from palaeontology archaeology linguistics psychology genetics and evolutionary theory to present evidence and

theories at the cutting edge of our understanding of these issues These essays will be vital reading for anyone interested in the nature and origins of the species and specifically human abilities *Encyclopedia of Human Evolution and Prehistory* Eric Delson,Ian Tattersall,John Van Couvering,Alison S. Brooks,2004-11-23 Praise for the first edition The most up to date and wide ranging encyclopedia work on human evolution available American Reference Books Annual For student researcher and teacher the most complete source of basic information on the subject Nature A comprehensive and authoritative source filling a unique niche essential to academic libraries important for large public libraries Booklist RBB **Scientific Argumentation in Biology** Victor Sampson,Sharon Schleigh,2013 Develop your high school students understanding of argumentation and evidence based reasoning with this comprehensive book Like three guides in one Scientific Argumentation in Biology combines theory practice and biology content It starts by giving you solid background in why students need to be able to go beyond expressing mere opinions when making research related biology claims Then it provides 30 thoroughly field tested activities your students can use Detailed teacher notes suggest specific ways in which you can use the activities to enrich and supplement not replace what you re **Increasing Student Comprehension of Evolution Through Laboratory Investigations and Simulations** Steven W. McClintock,2008 American Journal of Physical Anthropology ,1925 Bibliography in physical anthropology 1942 43 in Dec issue *Hominid Evolution and Community Ecology* Robert Foley,1984 *Resources in Education* ,1986 Classification and Human Evolution Wenner-Gren Foundation for Anthropological Research,1963 This volume reviews the meaning of taxonomic statements and considers our present knowledge regarding the number and characteristics of species among living and extinct primates including man and his ancestors Human Evolution ,1991 **The Environmental Background to Hominid Evolution in Africa** International Union for Quaternary Research. Congress,1999 *Encyclopedia of Human Evolution and Prehistory* Ian Tattersall,Eric Delson,John A. Van Couvering,1988 War, what For? George Ross Kirkpatrick,1910 Topical Outlines for General and Personal Hygiene Peter Frandsen,1923 Science John Michels (Journalist),1904 Vols for 1911 13 contain the Proceedings of the Helminthological Society of Washington ISSN 0018 0120 1st 15th meeting **The Ritschlian Theology, Critical and Constructive** Alfred Ernest Garvie,1899 **Evolution** ,1994 *The Science Teacher* ,2005 SCC Library has 1964 cur **Scientific American** ,1906

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