

Student Exploration: Human Evolution - Skull Analysis

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes. Complete the lab Assessment.

Define Each Vocabulary Word:

bipedal—an organism that moves by means of its two rear limbs or legs

canine—relating to or characteristic of dogs

cranial capacity—the volume of the interior of the cranium of vertebrates that possess a cranium and a brain

cranium—the skull, especially the part enclosing the brain

evolve—develop gradually, especially from a simple to a more complex form

foramen magnum—the hole in the base of the skull through which the spinal cord passes

hominid—the group consisting of all modern and extinct Great Apes

hominin—the group consisting of modern humans, extinct human species and all our immediate ancestors

index—a scale for showing the quality of an environment by indicating the types and abundances of organisms

present in a representative sample of the environment

maxilla—the jaw in vertebrates that is fused to the cranium

orbit—the bony cavity that contains the eyeball

palate—the roof of the mouth

skull—the bones of the head collectively

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Label one of the **skulls** below as human and the other as a chimpanzee skull.

	Human			Chimpanzee
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2. What features did you use to identify which skull was human and which was chimpanzee?

The chimpanzee has a longer skull and larger jaw bone.

Gizmo Warm-up

In 1924, a fossilized skull that looked very similar to a chimp skull was discovered. But the skull most definitely did not belong to a chimp. The location of the **foramen magnum**—a hole in the skull where the spinal cord exits—indicated that the individual was **bipedal**, or walked on two legs. This fossil was some of the earliest evidence of human evolution. Using the *Human Evolution – Skull Analysis* Gizmo, you will discover some of the ways that skulls can be used to learn about human evolution. Start by comparing two modern **hominids**: a human and a chimpanzee.

1. Examine the **Front view** of the *Homo sapiens* (modern human) skull. use the **Select skull** menu to examine the same view of the *Pan troglodytes* (chimp) skull.



Then,

How do the skulls compare?

The human skull has a smaller jaw, smaller teeth, and a larger forehead. Chimpanzees also have a larger nose.

Student Exploration Human Evolution Skull Analysis Answers

**Jeffrey K. McKee, Frank E. Poirier, W
Scott McGraw**



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Science John Michels (Journalist),2004 A weekly record of scientific progress Bulletin of the Atomic Scientists,1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Bulletin of the Atomic Scientists* ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world Forthcoming Books Rose Army,2000-06 **The Evolution of the Human Head** Daniel E. Lieberman,2011-01-03 In one sense human heads function much like those of other mammals We use them to chew smell swallow think hear and so on But in other respects the human head is quite unusual Unlike other animals even our great ape cousins our heads are short and wide very big brained snoutless largely furless and perched on a short nearly vertical neck Daniel E Lieberman sets out to explain how the human head works and why our heads evolved in this peculiarly human way Exhaustively researched and years in the making this innovative book documents how the many components of the head function how they evolved since we diverged from the apes and how they interact in diverse ways both functionally and developmentally causing them to be highly integrated This integration not only permits the head s many units to accommodate each other as they grow and work but also facilitates evolutionary change Lieberman shows how when and why the major transformations evident in the evolution of the human head occurred The special way the head is integrated Lieberman argues made it possible for a few developmental shifts to have had widespread effects on craniofacial growth yet still permit the head to function exquisitely This is the first book to explore in depth what happened in human evolution by integrating principles of development and functional morphology with the hominin fossil record The Evolution of the Human Head will permanently change the study of human evolution and has widespread ramifications for thinking about other branches of evolutionary biology **Understanding Human Evolution** Jeffrey K. McKee, Frank E. Poirier, W Scott McGraw, 2015-10-16 For the one term course in human evolution paleoanthropology or fossil hominins taught at the junior senior level in departments of anthropology or biology This new edition provides a comprehensive overview to the field of paleoanthropology the study of human evolution by analyzing fossil remains It includes the latest fossil finds attempts to place humans into the context of geological and biological change on the planet and presents current controversies in an even handed manner The Skull of Australopithecus afarensis William H. Kimbel, Yoel Rak, Donald C. Johanson, 2004-03-11 The book is the most in depth account of the fossil skull anatomy and evolutionary significance of the 3 6 3 0 million year old early human species Australopithecus afarensis Knowledge of this species is pivotal to understanding early human evolution because 1 the sample of fossil remains of A afarensis is among the most extensive for any early human species and the majority of remains are of taxonomically informative skulls and teeth 2

the wealth of material makes *A. afarensis* an indispensable point of reference for the interpretation of other fossil discoveries. The species occupies a time period that is the focus of current research to determine when, where, and why the human lineage first diversified into separate contemporaneous lines of descent. Upon publication of this book, this species will be among the most thoroughly documented extinct ancestors of humankind. The main focus of the book is its organizing principle: the first complete skull of *A. afarensis*, specimen number A.L. 444-2 at the Hadar site, Ethiopia, the home of the remarkably complete 3.18 million year old skeleton known as Lucy, found at Hadar by third author D. Johanson in 1974. Lucy and other fossils from Hadar, together with those from the site of Laetoli in Tanzania, were controversially attributed to the then brand new species *A. afarensis* by Johanson, T. White, and Y. Coppens in 1978. However, a complete skull, which would have quickly resolved much of the early debate over the species, proved elusive until second author Y. Rak's discovery of the 444 skull in 1992. The book details the comparative anatomy of the new skull and the cast of its brain, analyzed by R. Holloway and M. Huan, as well as of other skull and dental finds recovered during the latest ongoing field work at Hadar, and analyzes the evolutionary significance of *A. afarensis* in the context of other critically important discoveries of earliest humans made in recent years. In essence, it summarizes the state of knowledge about one of the central subjects of current

paleoanthropological investigation. **Human Evolution Source Book** Russell L. Ciochon, John G. Fleagle, 2016-12-05. For Junior Senior and Graduate courses in Human Evolution taught in anthropology and biology departments. This book is the most comprehensive collection of cutting edge articles on human evolution. Designed for use by students in anthropology, paleontology, and evolutionary biology, this edited volume brings together the major ideas and publications on human evolution of the past three decades. The book spans the entire scope of human evolution with particular emphasis on the fossil record, including archaeological studies. **Bones, Stones and Molecules** David W. Cameron, Colin P.

Groves, 2004-07-08. *Bones, Stones and Molecules* provides some of the best evidence for resolving the debate between the two hypotheses of human origins. The debate between the Out of Africa model and the Multiregional hypothesis is examined through the functional and developmental processes associated with the evolution of the human skull and face, and focuses on the significance of the Australian record. The book analyzes important new discoveries that have occurred recently and examines evidence that is not available elsewhere. Cameron and Groves argue that the existing evidence supports a recent origin for modern humans from Africa. They also specifically relate these two theories to interpretations of the origins of the first Australians. The book provides an up to date interpretation of the fossil, archaeological, and the molecular evidence, specifically as it relates to Asia and Australia, in particular. Readily accessible to the layperson and professional. Provides concise coverage of current scientific evidence. Presents a robust computer generated model of human speciation over the last 7 million years. Well illustrated with figures and photographs of important fossil specimens. Presents a synthesis of great ape and human evolution. **Wiley-Blackwell Student Dictionary of Human Evolution** Bernard Wood, 2015-02-23. Not so

long ago all a student studying human evolution needed was a familiarity with the relatively sparse fossil record and what limited information there was about the context of the sites a basic knowledge of gross anatomy and archeology and an understanding of simple analytical methods Times have changed The fossil record has grown exponentially imaging techniques have advanced dramatically quantitative methods have burgeoned and molecular biology has revolutionized our understanding of genetics evolutionary history and development Added to this are advances in the archeological biological and earth sciences that help interpret the context of the fossil evidence and reconstruct behavior But presently there is nowhere students of human evolution can easily find out about topics as disparate as ameloblast Coopers Cave daily secretion rate the effect hypothesis homeobox genes insolation phylogenetically independent contrasts quantitative trait locus semicircular canals and tephrostratigraphy The Wiley Blackwell Student Dictionary of Human Evolution contains upwards of 2500 entries all drafted with an eye on the student user It is an indispensable source for those studying human evolution

An Introduction to Human Evolutionary Anatomy Leslie Aiello, Christopher Dean, 1990-01-28 For students of Human Evolution the fossil evidence of skeletal remains is a prime source of information from which to reconstruct the form and lifestyle of the early hominids But how is this evidence to be fully and properly used by students with little or no anatomical training In this book an anthropologist and an anatomist have combined their skills to provide students and research workers with the essentials of anatomy and the means to apply these to investigations into hominid form and function Armed with the basic principles and relevant bones conclusions can be reached regarding the probable musculature stance brain size age weight and sex of a particular fossil specimen The sort of deductions which are possible are illustrated by reference back to contemporary apes and humans and a coherent picture of the history of hominid evolution emerges Written in a clear and concise style and profusely illustrated this book is a basic reference for all concerned with human evolution and a valuable companion both to laboratory practical sessions and to new research using fossil skeletons

Principles of Human Evolution Robert Andrew Foley, Roger Lewin, 2009-02-05 *Principles of Human Evolution* presents an in depth introduction to paleoanthropology and the study of human evolution Focusing on the fundamentals of evolutionary theory and how these apply to ecological molecular genetic paleontological and archeological approaches to important questions in the field this timely textbook will help students gain a perspective on human evolution in the context of modern biological thinking The second edition of this successful text features the addition of Robert Foley a leading researcher in Human Evolutionary Studies to the writing team Strong emphasis on evolutionary theory ecology and behavior and scores of new examples reflect the latest evolutionary theories and recent archaeological finds More than a simple update the new edition is organized by issue rather than chronology integrating behavior adaptation and anatomy A new design and new figure references make this edition more accessible for students and instructors New author Robert Foley leading figure in Human Evolutionary Studies joins the writing team Dedicated website www.blackwellpublishing.com/lewin provides study

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The Fossil Evidence for Human Evolution Wilfrid Edward Le Gros Clark, 1955

Human Evolution Joseph Benjamin Birdsell, 1981

Buried Skulls Amelia Khatri, AI, 2025-02-15 Buried Skulls offers a captivating exploration into the ever evolving field of human evolution Challenging the traditional linear view of our ancestry the book delves into paleoanthropology presenting a more complex bush like model where multiple ancient hominin species coexisted It examines pivotal fossil discoveries such as those in Dmanisi Georgia and South Africa that defy easy categorization and force us to reconsider established timelines The book highlights the ambiguity of the fossil record using it as a catalyst for understanding our origins This book integrates insights from fields like genetics and climate science to provide a comprehensive view of human origins It also explores the impact of climate change and geographical isolation on the evolutionary trajectory of hominin skulls By embracing the complexity of the fossil record Buried Skulls emphasizes adaptation gene flow and environmental pressures in shaping our evolutionary trajectory The book progresses through carefully structured chapters beginning with the principles of paleoanthropology and culminating in a revised model of human evolution

Human Evolution Alan Bilborough, 1992-08-15 The past decade has seen significant advances in our understanding of human evolution Discoveries have presented extensive new evidence of fossil hominids whilst developments in dating techniques and the geological sciences have yielded a wealth of information permitting the reconstruction of the environment ecology and behaviour of past hominid communities

Human Origins Clark Spencer Larsen, Robert M. Matter, 1985 The authors present an introductory guide to the fossil record of prehuman human evolution through the presentation of detailed drawings of complete or nearly complete specimens that are representative of particular grades of evolution

Human Evolution Veronica Armstrong, 2015

Human Evolution, 2021 Our Walkthrough Guide designed to teach the Level 3 Human Evolution external with helpful images and diagrams Our Walkthrough Guide includes A run through the key ancestral species that led to Homo sapiens today An explanation of the physical and cultural trends which allowed our ancestors to survive as well as the running theories of dispersal Advice to tackle specific exam questions including wording and expected answers Each section includes Stop and Checks and Quick Questions to test parts of your understanding that need work and to help you study smarter not harder All of the answers including how we got there are available online Our Walkthrough Guides are the perfect companion to our workbooks Use the Walkthrough Guide to learn all of the content and then solidify your learning through the questions and practice exam in the workbook Publisher description

Human Origins John R. Durant, John Durant, 1989 In recent years studies in several overlapping fields have

enlarged our understanding of human origins This book brings together essays by leading archaeologists anthropologists biologists and paleontologists to provide a vivid portrait of what is currently known about the evolution of our species The contributors include the Oxford biologist Richard Dawkins the molecular biologist Alec Jeffreys and Richard Leakey Director of the National Museum of Kenya Among the topics discussed are the lifestyle of our early ancestors the evolution of human intelligence the nature and significance of human purpose Human Origins is an accessible and authoritative guide to contemporary scientific views of human evolution providing a detailed account of the emergence of hominids from the world of apes

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