

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.

Human Evolution Skull Analysis Gizmo Answers

ML Morrison

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the ML Morrison text.

Human Evolution Skull Analysis Gizmo Answers:

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.

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, it 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.

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.

The Skull in the Rock Marc Aronson, Lee R. Berger, 2012. Chronicles the story behind one of the most significant archaeological discoveries of all time, explaining its significance for understanding human evolution and how it is shaping the thinking of the scientific community.

Human Origins, 2011. Describes how mapping the human genome has aided paleoanthropologists in their study of ancient bones used to explore human origins from the earliest humans, bipedal apes up to Martin Pickford's Millennium Man.

Data for the Problem of Evolution in Man Alice Elizabeth Lee, 1901.

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 of 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: *A Correction for Artificial Deformation of Skulls* Harry Lionel Shapiro, 2013-03.

The Gilded Skull in England's Closet James Marcus Burnes, 2014.

The Evolution of Modern Human Diversity Marta Mirazón Lahr, 1996-05-30. Investigates the two main theories of how and where humans evolved.

Data for the Problem of Evolution in Man, 1901.

The Runaway Brain Christopher Wills, 1993-10-19. A look at the human brain, employing new research by paleontologists, geneticists, and neurobiologists to debunk revisionist theories of

human prehistory studying two competing theories of human evolution the multiple origins and Noah's Ark models

The Human Fossil Record, Brain Endocasts--The Paleoneurological Evidence Jeffrey H. Schwartz, Ian Tattersall, Ralph L. Holloway, 2002 The Human Fossil Record Volume one Terminology and Craniodental Morphology of Genus Homo Europe Jeffrey H. Schwartz Ian Tattersall The Human Fossil Record series is the most authoritative and comprehensive documentation of the fossil evidence relevant to the study of our evolutionary past This first volume covers the craniodental remains from Europe that have been attributed to the genus Homo Here the authors also clearly define the terminology and descriptive protocol that is applied uniformly throughout the series Organized alphabetically by site name each entry includes clear descriptions and original expertly taken photographs as well as Morphology Location information History of discovery Previous systematic assessments of the fossils Geological archaeological and faunal contexts Dating References to the primary literature The Human Fossil Record series is truly a must have reference for anyone seriously interested in the study of human evolution

Atlas of Human Evolution C. Loring Brace, 1979

The Science of Human Origins Claudio Tuniz, Giorgio Manzi, David Caramelli, 2014-02-15 Three of the Europe's leading paleoanthropologists and physical scientists outline here in student friendly language the revolutionary changes in the science of studying of human origins and the amazing findings those tools have produced

The Origins of Modern Humans Fred H. Smith, Frank Spencer, 1984 Chapter on Australasia separately annotated see Wolpoff M H and others

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

The Origins of Modern Humans Fred H. Smith, James C. Ahern, 2013-07-09 This update to the award winning The Origins of Modern Humans A World Survey of the Fossil Evidence covers the most accepted common theories concerning the emergence of modern Homo sapiens adding fresh insight from top young scholars on the key new discoveries of the past 25 years The Origins of Modern Humans Biology Reconsidered allows field leaders to discuss and assess the assemblage of hominid fossil material in each region of the world during the Pleistocene epoch It features new fossil and molecular evidence such as the evolutionary inferences drawn from assessments

of modern humans and large segments of the Neandertal genome It also addresses the impact of digital imagery and the more sophisticated morphometrics that have entered the analytical fray since 1984 Beginning with a thoughtful introduction by the authors on modern human origins the book offers such insightful chapter contributions as Africa The Cradle of Modern People Crossroads of the Old World Late Hominin Evolution in Western Asia A River Runs through It Modern Human Origins in East Asia Perspectives on the Origins of Modern Australians Modern Human Origins in Central Europe The Makers of the Early Upper Paleolithic in Western Eurasia Neandertal Craniofacial Growth and Development and Its Relevance for Modern Human Origins Energetics and the Origin of Modern Humans Understanding Human Cranial Variation in Light of Modern Human Origins The Relevance of Archaic Genomes to Modern Human Origins The Process of Modern Human Origins The Evolutionary and Demographic Changes Giving Rise to Modern Humans The Paleobiology of Modern Human Emergence Elegant and thought provoking The Origins of Modern Humans Biology Reconsidered is an ideal read for students grad students and professionals in human evolution and paleoanthropology **The Brain in Hominid Evolution** Phillip V. Tobias,1971 **The Evolution of the Human Brain** Gerhardt von Bonin,1963

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