

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

Yi-Tong Ma

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

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.

The Skull of [^]Australopithecus afarensis[^] R. 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;
3. 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 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 Fossil Evidence for Human Evolution Wilfrid Edward Le Gros Clark, 1955 **Understanding Human Evolution** Jeffrey K. McKee, 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

Human Evolution John L. Bradshaw, 2014-01-02 The last decade has seen an explosive burst of new information about human origins and our evolutionary status with respect to other species We have long been considered unique as upright bipedal creatures endowed with language the ability to use tools to think and introspect We now know that other creatures may be more or less capable of similar behaviour and that these human capacities in many cases have long evolutionary trajectories Our information about such matters comes from a diverse variety of disciplines including experimental and neuropsychology primatology ethology archaeology palaeontology comparative linguistics and molecular biology It is the interdisciplinary nature of the newly emerging information which bears upon one of the profoundest scientific human questions our origin and place in the animal kingdom whether unique or otherwise which makes the general topic so fascinating to layperson student and expert alike The book attempts to integrate across a wide range of disciplines an evolutionary view of human psychology with particular reference to language praxis and aesthetics A chapter on evolution from the appearance of life to the earliest mammals is followed by one which examines the appearance of primates hominids and the advent of bipedalism There follows a more detailed account of the various species of Homo the morphology and origin of modern H sapiens sapiens as seen from the archaeological palaeontological and molecular biological perspectives The origins of art and an aesthetic sense in the Acheulian and Mousterian through to the Upper Palaeolithic are seen in the context of the psychology of art Two chapters on language address its nature and realization centrally and peripherally the prehistory and neuropsychology of speech and evidence for speech and or language in our hominid ancestors A chapter on tool use and praxis examines such behaviour in other species primate and non primate the neurology of praxis and its possible relation to language Encephalization and the growth of the brain phylogenetically and ontogenetically and its relationship to intellectual capacity leads on finally to a consideration of intelligence social intelligence consciousness and self awareness A final chapter reviews the issues covered The book of around 70 000 words of text includes over 500 references over half of which date from 1994 or later

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

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

Scattered Skeletons in our Closet Karen Mutton, 2011-08-07 Australian researcher Mutton gives us the rundown on various hominids skeletons anomalous skulls and other things from our family tree including hobbits pygmies giants and horned people Chapters include Human Origin Theories Dating Techniques Mechanisms of Darwinian Evolution What Creationists Believe about Human Origins Evolution Fakes and Mistakes Creationist Hoaxes and Mistakes The Tangled Tree of Evolution The Australopithecine

Debate Homo Habilis Homo Erectus Anatomically Modern Humans in Ancient Strata Ancient Races of the Americas Robust Australian Prehistoric Races Pre Maori Races of New Zealand The Taklamakan Mummies Caucasians in Prehistoric China Strange Skulls Dolichocephaloids Coneheads Pumpkin Head M Head Horned Skulls The Adena Skull The Boskop Skulls Starchild Pygmies of Ancient America Pedro the Mountain Mummy Hobbits Homo Florensiensis Palau Pygmies Giants Goliath Holocaust of American Giants Giants from Around the World more Heavily illustrated *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

Reviewing **Human Evolution Skull Analysis Gizmo Answers**: Unlocking the Spellbinding Force of Linguistics

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