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Date: 12/03/2018

## Student Exploration: Human Evolution - Skull Analysis

### Prior Knowledge Questions

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



Human



Chimpanzee

- What features did you use to identify which skull was human and which was chimpanzee?

The shape of the **cranial cavity** and jaw, as well as the front of the mouth. Also because of the shape of the teeth and placement of **tooth sockets**, and **jaw line**.

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.

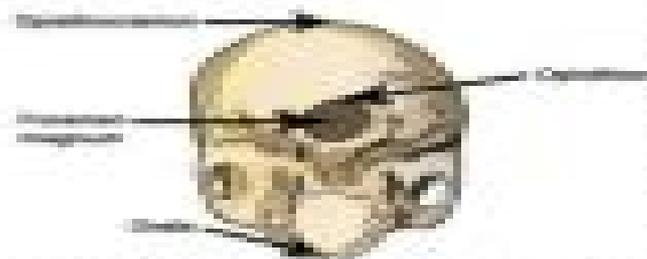


- Examine the **front** view of the **homo sapiens** (modern human) skull. Examine the same view of the **Pan troglodytes** (chimp) skull.

How do the skulls compare?

The chimp skull is more elongated. Also the teeth are spaced very differently.

Now, examine the **bottom** view of the two skulls. How do they compare?



**Introduction:** Skulls, even from the same species, use many a wide variety of shapes and sizes. To compare skulls, scientists use measurements of certain features to calculate indexes. An **index** is a ratio of one measurement to another.

An important index for measuring hominid skulls is the **orbital index**. This index indicates the position of the **foramen magnum** in the base of the **skull**. The orbital index can indicate whether a hominid species was bipedal or not.

**Question:** How does the location of the foramen magnum indicate if a species was bipedal?

- Measure:** Examine the **bottom** view. To determine the orbital index for humans and chimps, follow the steps below and complete the table.



## Skull Analysis Lab Answers

**Metallurgical Society of AIME. National Open Hearth and Basic Oxygen Steel Committee, American Institute of Mining, Metallurgical, and Petroleum Engineers. National Open Hearth and Basic Oxygen Steel Committee**

## Skull Analysis Lab Answers:

**Journal of Engineering for Industry**, 1974      Forensic Anthropology Laboratory Manual Steven N. Byers, Chelsey A. Juarez, 2016-10-04 This manual provides students in academic laboratory courses with hands on experience of the major processes of forensic anthropology Designed to accompany the textbook Introduction to Forensic Anthropology the manual introduces core procedures and protocol with exercise worksheets to reinforce the methodologies of forensic anthropology and enhance student comprehension For the fourth edition the manual has been updated in line with the textbook incorporating new methods figures and worksheets Each chapter contains explanations of the terminology osteological features and measurements needed to understand each of the topics Chapters may be covered in one session or multiple sessions and include lists of both basic and optional lab materials enabling instructors to tailor each lab to the resources they have available      *HIT Lab Report* University of Michigan. Highway Safety Research Institute, 1973-09      **Biological Explorations** Stanley E. Gunstream, 1997 Specifically designed for courses in general biology where the human organism is emphasized and for a growing number of courses in human biology This lab manual contains 32 outstanding exercises by the successful author of our Basic Biology lab manual The latest edition contains updates revisions See exercises 4 15 and 30 along with one entirely new exercise See exercises 5 on Enzymes      **Power Crystals** John DeSalvo, 2012-03-26 An exploration of the scientific historical and paranormal qualities of quartz crystals and ancient crystal skulls Explores the use of crystals throughout history including their role in Atlantis and in alien technology Offers step by step instructions to successfully use crystals in scrying meditation and Enochian magic Includes never before published scientific findings on the author's crystal skull as well as other crystal skulls researched at the British Museum Explains how the Space Time Crystal Matrix connects the physical world with the spiritual and may be the communication technology of the future Known for his in depth scientific work on the Shroud of Turin and the Great Pyramid of Giza John DeSalvo Ph D now sets his sights on quartz crystals and their mystical counterpart crystal skulls Exploring the use of crystals from Mesopotamia and ancient Egypt to present day technology including their use in ritual and ceremonial magic and their importance in ancient religious literature he examines the many physical and chemical properties of quartz crystals and explains how their crystalline lattice structure is the key to their amazing abilities both scientific and paranormal Reviewing the many paranormal claims about crystal skulls DeSalvo reveals the scientific findings on his own ancient crystal skull as well as research by the British Museum on other famous crystal skulls His investigation also extends to the recent discovery in Tibet of a trove of Dropa discs grooved stones allegedly recording an ancient alien visit to Earth Highlighting the use of quartz crystals and crystal skulls for psychic and spiritual purposes DeSalvo offers step by step instructions for their use in scrying meditation and Enochian magic including communication with angels Reviewing accounts of power crystals in Atlantis and their use in alien technology he explains how crystals connect the physical world with the spiritual via a powerful communication network

linking all crystals and their memories the Space Time Crystal Matrix a spiritual technology lost to the ages but which may become the communication system of the future **Prentice Hall Exploring Life Science** Anthea Maton,1997

**Archives of Pathology & Laboratory Medicine** ,2004 **Parade of Life** ,1993 **Trestle Of Death** Bob Holderbaum,2023-10-24 1985 Kalamazoo Michigan Young openly gay Wayne Watson is beaten to death under a dark secluded railroad trestle The two neighborhood toughs are in jail within 24 hours It s an open and shut murder case Or is it In Trestle Of Death Murder Unpunished Bob Holderbaum explores this intriguing new twist at every turn case Meticulously researched sensitive and tragic Wayne Watson s story is one that deserves to be told **Aviation Medical Reports** United States. Office of Aviation Medicine,1971 *The Price of Vigilance* Larry Tart,Robert Keefe,2001-06-01 The recent forced landing of a U S Navy EP 3 surveillance aircraft on Hainan Island after aerial harassment by Chinese fighters underscores that the dangers of the Cold War are not behind us Reconnaissance intelligence gathering has always been one of the most highly secretive operations in the military Men risk their lives with no recognition for themselves flying missions that were almost always unarmed and typically pose as weather survey or training flights Now the true stories of these brave young men can at last be told Larry Tart and Robert Keefe former USAF airborne recon men themselves provide a gripping unprecedented history of American surveillance planes shot down by China and Russia from the opening salvos of the Cold War to the most recent international standoff with China Appearing here for the first time are many crucial documents ranging from formerly highly classified U S files to conversations with Khrushchev and top secret reports from the Russian presidential archives Along with previously unreleased military details this meticulously researched book includes MiG fighter pilot transcripts and interviews with participants from both sides including survivors of downed American planes From the Baltic to the Bering Seas from Armenia and Azerbaijan to China Korea and the Sea of Japan these gripping accounts reveal the drama of what really happened to Americans shot down in hostile skies The Price of Vigilance brings to life the harrowing ordeals faced by the steel nerved crews the diplomatic furor that erupts after shootdowns and the grief and frustration of the families waiting at home families who most often were never told what their loved ones were doing Armed with the results of recent crash site excavations advanced DNA testing and the reports of local witnesses who can finally reveal what they saw Tart and Keefe have written a real life thriller of the deadly cat and mouse game of intelligence gathering in the air and across enemy borders The centerpiece of the book is the fate of USAF C 130 60528 and its crew of seventeen shot down over Armenia on September 2 1958 with no known survivors Tart and Keefe also vividly describe other shootdowns including the tense stand off between the U S and China after an American reconnaissance aircraft was forced to land on Hainan Island in April 2001 The Price of Vigilance pays moving tribute to the courage and patriotism of all the U S Air Force and U S Navy crews including those captured and the more than two hundred who never returned Larry Tart and Robert Keefe wish to publicly acknowledge to the families and to the nation that we will never forget their sacrifice

West's Federal Supplement ,1995      **Cumulated Index Medicus** ,1996      Physical Anthropology Philip L. Stein,Bruce M. Rowe,2000 This introduction to physical anthropology places emphasis on three themes that anthropology is a holistic discipline that human beings are an integral part of nature and our maintenance of a balance with nature can be strengthened by an understanding of our evolutionary past      **American Laboratory** ,2006      *Proceedings* Metallurgical Society of AIME. National Open Hearth and Basic Oxygen Steel Committee,American Institute of Mining, Metallurgical, and Petroleum Engineers. National Open Hearth and Basic Oxygen Steel Committee,1956      **FAA-AM.** United States. Office of Aviation Medicine,1971      **Government Reports Announcements & Index** ,1981      **General Aviation Structures Directly Responsible for Trauma in Crash Decelerations** John J. Swearingen,1971 Includes two pages of preprinted cards with author information and summary      **Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26** ,1926

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