

I believe that it is situated in that location because of the angle that their head must be at in order for them to see clearly as they are moving around on all fours.

Activity B:

Cranial capacity

Get the Gizmo ready:

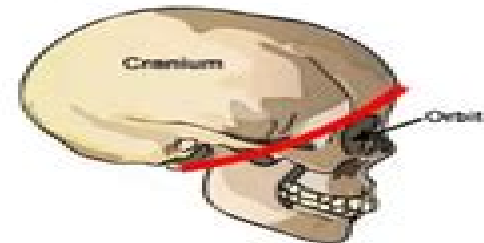
- Select **Side view**.
- Turn off **Ruler**, and turn on **Click to measure area**.



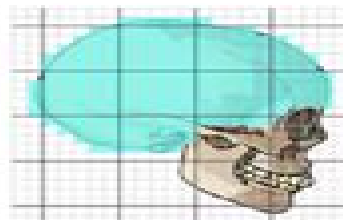
Introduction: The brain is housed inside the cranium. The internal volume of the cranium is called the **cranial capacity**. The larger an organism's cranial capacity is, the larger its brain tends to be.

Question: How does the cranial capacity compare amongst hominids?

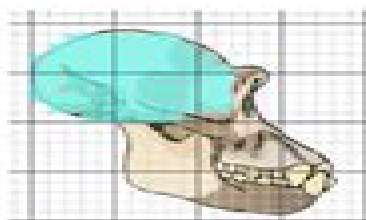
1. **Measuring:** To estimate the cranial capacity of each skull in the Gizmo, measure the area of the part of the cranium that houses the brain. This part of the cranium is roughly behind the red line in the diagram at right. You can also use the three skull images below as a guide for measuring the rest of the skulls in the Gizmo.



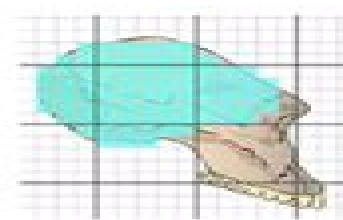
After you measure the area of each cranium, multiply the result by 5. This will give you a very rough estimate of the species' cranial capacity.



Homo sapiens



Pan troglodytes



Australopithecus afarensis

Species	Area of cranium (cm ²)	Estimated cranial capacity (cm ³)
<i>Pan troglodytes</i>	87	435
<i>A. afarensis</i>	78	390
<i>A. africanus</i>	91	455

Skull Analysis Gizmo Evolution Answers

Harry Lionel Shapiro



Skull Analysis Gizmo Evolution Answers:

Data for the Problem of Evolution in Man, 1901 The Evolution of the Human Head Daniel E. Lieberman, 2011-05-03 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 A

Correction for Artificial Deformation of Skulls Harry Lionel Shapiro, 2013-03 **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 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 main focus of the book its organizing principle is 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 Evolution of the Skull, Jaws and Teeth in Vertebrates William G. Young, R. Jupp, B. J. Kruger, 1989

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