Family Hominidae Skull Characteristics

Linnaean Classification

|  |  |
| --- | --- |
| Domain | Eukarya |
| Kingdom | Animalia |
| Phylum | Chordata |
| Class | Vertebrata |
| Order | Primates |
| Family | Hominidae |
| Genus | See chart above |
| Species | See chart above |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Size of Braincase****FB SS** | **Sagittal Crest****(Y/N)** | **Mastoid Process Flat or Protruding** | **Nasal Bones Arched or Flat** | **Length Mandible (cm)** | **Width of 4 Incisors (cm)** | **Protruding Canine (Y/N)** | **Canine Diastema (Y/N)** | **Combined Premolar and Molar (cm)** |
| ***Paranthropus boisei*** | 13.2 | 11.0 | Yes | Protruding | Flat | 7.0 | 1.1 | No | No | 3.9 |
| ***Australopithecus afarensis*** | 11.0 | 10.1 | Yes | Protruding | Flat | 5.8 | 1.4 | No | No | 2.7 |
| ***Pan troglodytes*** | 9.9 | 10.2 | Yes | Flat | Flat | 6.2 | 1.4 | Yes | Yes | 2.6 |
| ***Gorilla gorilla*** | 11.0 | 10.4 | Yes | Flat | Flat | 7.4 | 1.4 | Yes | Yes | 3.7 |
| ***Homo erectus*** | 14.9 | 12.8 | No | Protruding | Yes | 5.0 | 1.1 | No | No | 2.5 |
| ***Homo neanderthalensis*** | 16.8 | 14.9 | No | Protruding | Arched | 5.8 | 1.4 | No | No | 2.2 |
| ***Homo sapiens*** | 16.6 | 15.0 | No | Protruding | Arched | 4.4 | 1.1 | No | No | 2.0 |

How Measurements Were Made

Size of Braincase (Use string & ruler)

* Front to Back: Brow ridge to Foramen magnum (hole for spinal cord)
* Side to Side: External auditory meatus (earhole) to External auditory meatus (earhole)

\* Be sure to only measure brain case not extra bone

Length of Mandible:

* Base of teeth linearly to edge of mandible

Width of 4 Incisors

* Edge of first incisor tooth to edge of fourth incisor tooth

Combined Premolar and Molar Length

* Edge of first premolar to edge of back molar