

Title: Primate Skulls

Purpose:

- ❖ To learn names of primate skull bones
- ❖ To compare cranial bones and cranial regions in *Homo sapiens* and *Gorilla gorilla*

Procedure:

1. Draw *Homo sapiens* and *Gorilla gorilla* skulls (frontal, lateral, and dorsal views)
2. Draw mandible of *Homo sapiens* and *Gorilla gorilla*
3. Find, label, and indicate size (cm) on your drawings the following bones
 - a. Frontal
 - b. Nasal
 - c. Parietal (superior and lateral)
 - d. Temporal (lateral...at the temples!)
 - e. Occipital (dorsal...base of skull)
 - f. Maxilla (where the upper teeth are!)
 - g. Mandible (jaw)
 - h. Lacrimal (small, medial portion of orbit)
 - i. Zygomatic (lateral to nose and forming part of zygomatic arch closest to nose)
4. Find, label, and indicate size (cm) of the following areas on your drawings
 - a. Zygomatic arch ("cheek bone")
 - b. Orbit (open for eye)
 - c. Nasal opening
 - d. Body of mandible (frontal portion)
 - e. Angle of the jaw (lateral "corner")
 - f. Mandibular ramus (lateral portion that attaches to temporal bone)
5. Construct a data chart to compare/contrast the shape of these bones and bone areas

Discussion:

- ❖ Summarize what you did
- ❖ Comment on similarities and differences in *Homo sapiens* and *Gorilla gorilla* skulls.
- ❖ Support all statements with details from your drawings/data chart!

Reflection:

- ❖ Personal commentary on the activity

An extremely helpful website with images of *Homo sapiens* and *Gorilla gorilla* bones:

<http://members.nbci.com/jdenuno/Bones/Bones.htm>



