

Name: William Cutler Date: 12/07/2015

### Student Exploration: Human Evolution - Skull Analysis

#### Prior Knowledge Questions

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



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

*The shapes of the cranial cavities and jaw, as well as the front of the mouths. Also because of the shape of the teeth and placement of frontal incisors, and brow 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.

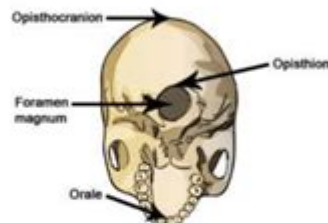


- Examine the **Front view** of the **Homo sapiens (modern human)** skull. Examine the same view of the **Pan troglodytes (chimp)** skull.

How do the skulls compare?

*The chimp skull is very elongated. Also the Teeth are placed very differently.*

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



**Introduction:** Skulls, even from the same species, can have 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 **opisthion index**. This index indicates the position of the foramen magnum in the base of the **cranium**. The opisthion 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 opisthion index for humans and chimps, follow the steps below and complete the table.



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neutral, pH . Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1. Acids are substances that produce hydrogen ions (H+) when dissolved in water. Lemon juice is an example of an acid. A. What does lemon juice taste like? \_\_\_\_\_ B. What does it feel like if lemon juice gets in your eye? \_\_\_\_\_ 2 ...

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