

Student Exploration: Human Evolution - Skull Analysis

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes. Complete the lab Assessment.

Define Each Vocabulary Word:

bipedal—an organism that moves by means of its two rear limbs or legs

canine—relating to or characteristic of dogs

cranial capacity—the volume of the interior of the cranium of vertebrates that possess a cranium and a brain

cranium—the skull, especially the part enclosing the brain

evolve—develop gradually, especially from a simple to a more complex form

foramen magnum—the hole in the base of the skull through which the spinal cord passes

hominid—the group consisting of all modern and extinct Great Apes

hominin—the group consisting of modern humans, extinct human species and all our immediate ancestors

index—a scale for showing the quality of an environment by indicating the types and abundances of organisms

present in a representative sample of the environment

maxilla—the jaw in vertebrates that is fused to the cranium

orbit—the bony cavity that contains the eyeball

palate—the roof of the mouth

skull—the bones of the head collectively

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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

	Human			Chimpanzee
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2. What features did you use to identify which skull was human and which was chimpanzee?

The chimpanzee has a longer skull and larger jaw bone.

Gizmo Warm-up

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. Using the *Human Evolution – Skull Analysis* Gizmo, you will discover some of the ways that skulls can be used to learn about human evolution. Start by comparing two modern **hominids**: a human and a chimpanzee.

1. Examine the **Front view** of the *Homo sapiens* (modern human) skull, use the **Select skull** menu to examine the same view of the *Pan troglodytes* (chimp) skull.



Then,

How do the skulls compare?

The human skull has a smaller jaw, smaller teeth, and a larger forehead. Chimpanzees also have a larger nose.

Human Evolution Skull Analysis

Jin-Ying Zhang



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