Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Comparing Hominoid Skulls**

Step1. Hypothesis

Fossil Skull is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Step 2. Data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Skull | SupraOrbital  Height (cm) | Shape of Braincase | Forehead | Face | Canine | Foramen Magnum |
| Modern Chimpanzee  (Pan trioglodytes) |  |  |  |  |  |  |
| Modern Human  (Homo Sapiens) |  |  |  |  |  |  |
| Early homonids  (Homo erectus) |  |  |  |  |  |  |
| Early hominids (Australopithicus afarensis) |  |  |  |  |  |  |
| Fossil Skull |  |  |  |  |  |  |

Step 3: Analyze & Conclude

1. **Conclude** To which of the four species does your fossil skull likely belong? Justify your answer with evidence.

2.Observe. How does the shape of the face differ between *Australopithecus afarensis* and *Homo sapiens*?

3. Observe. How do the canine teeth differ between *Australopithecus afarensis* and *Homo sapiens*?

4. Conclude. What do you think accounts for the differences you observe in the skulls and teeth of the hominoids?

5. Infer. How did the skulls compare in terms of cranial size? What does this indicate about the brains of the different hominoids?

6. Synthesize. In what way do you think the position of the foramen magnum relates to the movement of the hominoid?