Foot

1) Is a species that has Os peroneum most likely to be terrestrial or arboreal? Why?

2) In what way does the human foot differ from that of African apes?

3) Is the Os perineum present in the most recent common ancestor of African apes and humans?  Is it present in apes today?  What does this say about the relationship between African apes and humans?

Pelvis/Femur
1.       How have the pelvis and femur evolved over time?

2.       How can we tell from the pelvis if the being was an effective upright walker?

3.       In addition to the pelvis and femur ,  what are some muscles that allowed hominids to walk/run effectively for long distances?

Skull

1) List one difference between the Ardipithecus  Ramidus and the female chimp.

2) How did the discovery of AR Ramidus change our understanding of hominid evolution?

3) What inferences can be made based on the structure/size of the skull?

Hand

1) What a difference between the hand structure of great apes and ardipithecus?

2) How does the wrist of a human compare to the wrist of an ardipithecus?

3) How does the new information of the hand structure of an ardipithecus change what we know about the lineage and evolution of apes, humans, and ardipithecus?

Teeth

1. What is the C/P3 complex?

2. How and why is it important?

3. What is the importance of the change of enamel thickness?

Habitat

1. What is significant about the 9 kilo (5.5 miles) arc?
2. What is misleading about the conditions required for fossilization?
3. What is the connection between tectonic plates and fossilization?

Macrovertebrates

1. What evidence do scientists have that points to early hominids living in forest areas rather than the savannah?

     2. What is another animal which lives in a similar habitat?

     3. How do different isotopic remnants point to different plants?

Postcrania

Which came first the Australopithecus or Ardipithecus?

Why is it significant?

When did humans and chimp lineages split?