

ANTH 161 - BIO-BEHAVIORAL EVOLUTION OF THE HUMAN SPECIES

Virtual Lab 2

Please pick three out of the six exercise sets presented below. Answer all the questions as indicated. A link is provided to the relevant website.

[Clever Monkeys](#)

- Watch the 30-second introduction, then click on "explore more from this episode" and click on "Monkeys and Medicinal Plants" (text), "Monkeys and Language" (text), and "Monkeys and Emotion" (text).
- What is zoopharmacognosy? Give two examples based on the presented text.
- Give two examples of language abilities in monkeys.
- How do monkeys express emotions related to death, stress, and friendship?

website: <http://www.pbs.org/wnet/nature/clever-monkeys-introduction/3946/>



[The E-Skeleton's Project](#)

- Compare the human and the baboon cranium. Describe each bone. What are the differences between the two?
- Compare the human and gorilla cranium. Describe each bone. What are the differences between the two?
- Compare the human and gorilla mandible. Describe each bone. What are the differences between the two?
- Compare the human and baboon mandible. Describe each bone. What are the differences between the two?
- Compare the human and baboon innominate (os Coxa). Describe each bone. What are the differences between the two?
- Compare the human and gorilla innominate (os Coxa). Describe each bone. What are the differences between the two?

website: <http://www.eskeletons.org/>



[Primate Brains](#)

- Look at the images of the brains of the ring-tailed lemur, tarsier, spider monkey, baboon, chimp and human. What are the differences?
- In the "brain evolution" section, click on "paleoneurology." What is an endocast? What information is derived from an endocast?

- Click on "brain development." Describe the development of the human brain.

website: <http://brainmuseum.org/Specimens/primates/index.html>



[Becoming Human](http://www.becominghuman.org/)

- Click on "learning center" and then on "building bodies." Assemble the appropriate bones into a complete chimp and a complete human skeleton.
- Which bones did you have the most difficulty with?
- What is the difference between the foramen magnum in chimps versus in humans?
- What are the differences in the pelvis and femurs?
- What are other important differences between the two skeletons?

website: <http://www.becominghuman.org/>



[The Jane Goodall Institute](http://www.janegoodall.org/)

- Go to the website. Click on "Wiki" on the top menu. There are two sections: Jane Wiki and Chimp Wiki. You will explore both sections to answer the following questions:
- Who is Jane Goodall? What was her most notable and surprising discovery about chimpanzees? Give examples.
- Are chimpanzees herbivores or omnivores. Explain with examples.
- What is the chimpanzee habitat like?
- How do chimpanzees communicate with each other?

website: <http://www.janegoodall.org/>



[Amboseli Baboon Research Project](http://www.princeton.edu/~baboon/)

- What is a day in the life of a baboon like? What are some of the activities they engage in?
- Click on "Baboon social life." What characterizes baboon social life? Be sure to watch the video examples of baboon social behavior.
- What have the researchers learned from doing genetic research?

website: <http://www.princeton.edu/~baboon/>

