

Human Anatomy Celebration I

Study Guide

Over the last 3 weeks we have studied in depth the muscular, skeletal, respiratory, and circulatory systems. You have been provided a plethora of handouts, anatomy diagrams, and notes to support your studying. To ensure success in the Anatomy Quiz on Wednesday, make sure you can do all of the following:

1. Be able to describe in detail how the muscular, skeletal, respiratory, and circulatory systems contribute to movement in animals.
2. Be able to identify and label the following bones on a skeleton: cranium, spine, humerus, radius, ulna, femur, tibia, fibula, atlas vertebrae.
3. Know the 5 functions of the skeletal system.
4. Be able to identify and describe the movement of the saddle, hinge, ball and socket, and plane joint.
5. Be able to identify the major muscle groups: bicep, tricep, quadriceps, hamstrings.
6. List and provide an example of the 3 muscle types.
7. Explain why muscles come in pairs (extenders and flexors).
8. Describe the process of fatigue. What is anaerobic and aerobic cellular respiration?
9. Explain ALL the steps to oxygenate body tissues and to rid of carbon dioxide.
10. Identify and label the major components of the respiratory and circulatory systems: heart, arteries, veins, lungs, and diaphragm.
11. Explain the role of the diaphragm in the breathing process.
12. Describe a disease of one of the systems describe and how to decrease the chances of getting it.
13. Describe where in the body Cellular Respiration occurs and how do the muscle, skeletal, respiratory, and circulatory contribute to cellular respiration.
14. Describe how animal skeletons provide evidence of the theory of evolution.