Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_

**Skeletal System**

<http://www.livescience.com/22537-skeletal-system.html>

1. What is the function of the skeletal system?
2. Explain the function of the following:

Bone-

Cartilage-

Ligaments-

Tendons-

1. How many bones do you have as a child?
2. How many bones do you have as an adult?
3. Why does the # of bones change as you grow?

<https://www.sharecare.com/health/parts-of-the-skeletal-system/what-is-growth-plate>

1. What is a growth plate? What are the parts of the bone?
2. What might happen if a child were to damage a growth plate?
3. What is the function of the bone marrow?

<http://www.livestrong.com/article/72443-specialized-cells-skeletal-system/>

1. Explain the role of these specialized cells of the bones:

Osteoblast-

Osteoclast-

Osteocyte-

Comparative Anatomy <https://en.wikipedia.org/wiki/Comparative_anatomy>

1. What is the difference between homologous and analogous anatomy?

<http://eskeletons.org/boneviewer/nid/12539/region/skull/bone/cranium>

1. Compare and contrast similar appendages of these different skeletons. What are some similarities? What are some differences?

**Textbook page 924**

1. Describe the joints, where they are located and their function.

Ball and socket joint-

Hinge joint-

Pivot joint-

Saddle joint-

<http://www.sharksavers.org/en/education/biology/differences-between-sharks-and-bony-fish-more-than-just-a-skeleton/>

1. Compare the skeletons of body fish and sharks. What are they made of? How does that effect consumption?

<http://www.pbs.org/wgbh/nova/evolution/origins-bipedalism.html>

1. Why do we walk on two legs?

<https://www.britannica.com/science/cellulose>

1. How does cellulose act as a plant skeleton?

**Digestive System**

<https://www.niddk.nih.gov/health-information/health-topics/Anatomy/your-digestive-system/Pages/anatomy.aspx>

1. Label the functions of the following organs:

Mouth-

Pharynx-

Esophagus-

Stomach-

Small intestine-

Large intestine-

Liver-

Pancreas-

Rectum-

Appendix-

Gallbladder-

1. What is the function of the digestive system?
2. Which other body systems does it work with and how?
3. What digestive enzymes belong to each organ and how to they contribute to the digestion of food?

Comparative Anatomy- <http://www.biozoomer.com/2013/01/digestive-system-bird-mammal-reptile.html>

1. How does the digestive system compare between these animals.
2. Do plants have a digestive system?

<http://listverse.com/2011/06/09/top-10-fascinating-carnivorous-plants/>

1. Why are some plants be carnivorous?
2. Choose one of the plants from this link to summarize.

Excretory System

Biology Textbook pages 985-989

1. Describe the function of the following organs:

Kidney-

Ureter-

Urinary bladder-

1. The kidneys are responsible for filtration. Describe the process:
2. What role do the kidneys play in the body’s homeostasis? How?
3. Why would someone need dialysis?

<http://m.kidshealth.org/en/teens/sweat.html>

1. Why do we sweat?

Comparative Anatomy <http://people.eku.edu/ritchisong/342notes10.html>

1. How have kidneys changed over time?