**Note Taking Guide Skeletal & Muscular System**

Define vertebrate and invertebrate. Give an example of each.

Define exoskeleton and endoskeleton. Which is stronger/better? Why?

Why are teeth not considered bones?

What is the role of cartilage around bones?

Compare and contrast osteoblast, osteocytes and osteoclast.

What is bone made up of?

Humans grow bones until puberty (approx.: 25 years old) how do you anticipate this will vary with the animal species you work with?

Explain the role of the pituitary gland and thyroid in relationship to bone matrix development.

What is the function of the skeletal system?

What are the 4 types of bone shapes? (Give shape, size, function/use and examples of each)

Compare and contrast ligaments and tendons.

Identify ways to fix broken/fractured bone in animals.

What are the three types of muscles? Give examples of where to find each.

Why are muscles critical to animal health.

Explain the role of sarcomeres, actin and myosin in muscle movement.

Does an animal want a high level of Tropomyosin and Troponin in their system? Why or why not?

What is rigor mortis? Why does it occur? Have you seen it occur in animals at your YA?

List three organs that depend on smooth muscles for operation.

How does cardiac muscle differ from smooth or skeletal?

What questions do you have about this topic (you should get in the habit for this class and all classes to create a running list of questions that you have as you go through curriculum).