

## Unit 4 Guide – The Skeletal System

### Reading Assignment:

Chapter 6 – Bones and the Skeletal Tissue (pages 175-201)

Chapter 7 – The Skeleton (*for reference, no reading required*)

Chapter 8 – Joints (pages 253-265\*)

### Vocabulary:

*Please define the following terms and use them to study for the Unit Quiz. Be prepared to turn in a list of your definitions the day of the quiz. You may use flashcards, list form, Quizlet, or whatever is most practical and useful for you.*

#### **Chapter 6:**

Elastic cartilage

Hyaline cartilage

Fibrocartilage

Axial Skelton

Appendicular skeleton

Hematopoiesis

Compact bone

Spongy bone

Diaphysis

Epiphysis

Periosteum

Endostem

Comminuted fracture

Spiral fracture

Depressed fracture

Compression fracture

Epiphyseal fracture

Greenstick fracture

#### **Chapter 8:**

Synarthroses

Amphiarthroses

Diarthroses

Fibrous joints

Sutures

Syndesmoses

Gomphoses

Origin (of muscle)

Insertion (of muscle)

Nonaxial movement

Uniaxial movement

Biaxial movement

Multiaxial movement

Cartilaginous joint

Synchondroses

Symphyses

Synovial joints

Articular cartilage

Synovial cavity

Articular cartilage

Synovial cavity

Flexion

Extension

Abduction

Adduction

Circumduction

Rotation

## Honors Physiology

### Study Questions:

*Answer the following questions throughout the unit. Be ready to turn in your work the day of the quiz. Use in class notes, the textbook, and other resources to guide you in writing your **own** original response to the question. Think critically!*

### **Chapter 6:**

1. Name and describe the three types of skeletal cartilage.
2. What are the two major groups of bones?
3. Bones are divided into four classes based on shape. Give the characteristics of each of the four classes, and give an example of a bone that belongs in that class.
4. Describe the five functions of bones.
5. Describe the structure of a long bone.
6. Compare the two types of bone texture.
7. Explain how fractures are classified. Compare the types of fractures.
8. What are the four stages of fracture repair.

### **Chapter 8:**

9. Define joint.
10. Compare the three types of functional classifications for joints.
11. Define fibrous joint. Describe and give an example of each of the three types of fibrous joints.
12. Define cartilaginous joint. Describe and give an example of each of the two types of cartilaginous joints.
13. Define synovial joint. List the five distinguishing features of a synovial joint.
14. Describe three factors that stabilize a synovial joint.
15. Contrast the origin and insertion of a muscle.
16. Compare the four ranges of motion allowed by synovial joints (axial movements).