

Unit 5 Outline – Chapter 7 (p. 130-139 and p. 160-167)
Skeletal System

Anatomy and Physiology – Mrs. Michaelsen

Chapter Objectives:

1. Describe the microscopic structure of a long bone, and list the functions of these parts (both compact and spongy bone).
2. Distinguish between intramembranous and endochondral bones, and explain how such bones develop and grow.
3. Explain how osteoclasts and osteoblasts remodel bone and the factors that affect bone development, growth, and repair.
4. Using the Topic of Interest on Bone Fractures found on pages 136 and 137, explain the various types of fractures and the major steps in the repair of a fracture.
5. Describe the major functions of bones.
6. Distinguish between the axial and appendicular skeletons, and name the major parts of each.
7. Classify joints according to the type of tissue binding the bones together, describe their characteristics, and name an example of each (including all six types of synovial joints).
8. Name and describe the major disorders of bones and joints discussed in lecture.

Other Assignments/Activities:

- Long Bone drawing
- The Aging Hand activity

Website: Access at <http://www.chetekhighscience.yolasite.com>

- As a class, we will visit an available computer lab and complete a virtual knee replacement surgery assignment. The website and questions will be posted on the website prior to the lab day. You will need a set of headphones on the day that we visit the computer lab to complete the assignment.

Note: There will two exams given during this unit.

- The first exam will cover material taken from the text and lecture in Chapter 7.
- The second exam will include learning several bones (correct spelling) and the location of each in the body. The exam will be verbal using the articulated skeleton and skulls used in class.