

Unit 6 Outline – Chapter 8 (p. 176 - 192)  
**Muscular System**

Anatomy and Physiology – Mrs. Michaelsen

Chapter Objectives:

1. Describe how connective tissue is a part of a skeletal muscle.
  2. Name the major parts of a skeletal muscle fiber and describe the function of each.
  3. Explain how stimulation of skeletal muscle occurs at the neuromuscular junction.
  4. Identify and describe the major events of skeletal muscle fiber contraction (be sure to explain the sliding filament model and neurotransmitters in your answer).
  5. Describe the energy sources for muscle fiber contraction.
  6. Explain how lactic acid, oxygen debt, and muscle fatigue are related.
  7. Distinguish between the structures and functions of multiunit smooth muscle and visceral smooth muscle.
1. Compare the contraction mechanisms of skeletal, smooth, and cardiac muscle fibers.
  2. Explain how the attachments, locations, and interactions of skeletal muscles make possible certain movements.
  3. Using the Genetics Connection found on p. 191 in your text, please describe the four inherited disorders affecting muscle tissue. Include in your description the type of protein that is abnormal in form or function and the particular muscles that are affected.

Other Assignments/Activities:

- Lab – Investigating muscle fatigue

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

- Please visit the website and complete the assignment on *rigor mortis*.

Note: There will be two exams given during this unit.

- The first exam will cover material taken from the text and lecture in Chapter 8 (8.1 – 8.7) – The Muscular System.
- The second exam will include learning several muscles (correct spelling) and their corresponding action within the body. The exam will be completed on paper using diagrams similar to those found in Chapter 8 of your text.