

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

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## Muscle Contraction WebQuest

### Introduction

**Welcome:** Skeletal Muscle Contraction-Spinach Connection

**Description:** Learn the anatomy and physiology of a muscle contraction using animations. Project-based assessment concludes the WebQuest.

**Grade Level:** 9-12

**Curriculum:** Anatomy

**Task 1:** Review of muscle contraction concepts.

Watch the following animations in order and then answer the questions that follow.



### Neuromuscular Junction

1. What causes voltage-gated calcium ion channels to open?
2. Calcium moving into the neuron causes vesicles to release a neurotransmitter. What's the name of this neurotransmitter?
3. What is the name of the enzyme that breaks down Ach?

### Action Potentials and Muscle Contractions

4. Explain what you think a neuromuscular junction is.
5. What is the name of the protein that covers up the myosin binding sites on actin?
6. Create an analogy that describes the role of troponin & tropomyosin.
7. How would you describe a cross-bridge?

### Breakdown of ATP and Cross-Bridge Movement during Muscle Contraction

### Muscular System, Sliding Filament Theory 1

8. What is the connective tissue that connects muscle to bone called?
9. What is the connective tissue that separates **bundles** of muscle fibers?
10. What is the connective tissue that separates **individual** muscle fibers?

# Muscle Contraction Webquest Answers

**A Gutmann**



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