

# PhysioEx Lab Report

Exercise 2: Skeletal Muscle Physiology

Activity 3: The Effect of Stimulus Frequency on Skeletal Muscle Contraction

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Session ID: session-89a0275a-bf2c-1997-d4f4-6c0109ef83b1

## Pre-lab Quiz Results

You have not completed the Pre-lab Quiz.

## Experiment Results

### Predict Questions

- 1 Predict Question 1: As the stimulus frequency increases, what will happen to the muscle force generated with each successive stimulus? Will there be a limit to this response?

Your answer: As the stimulus frequency increases, the muscle force generated by each successive stimulus will increase. There will be a limit to this increase.

- 2 Predict Question 2: In order to produce sustained muscle contractions with an active force value of 5.2, do you think you will need to increase the stimulus voltage?

Your answer: No.

### Stop & Think Questions

- 1 Was there any change in the force generated by the muscle during the second stimulated twitch?

You correctly answered: Yes, the second twitch generated more muscle force.

- 2 Is the total muscle force generated by the higher frequency stimulation greater than the force generated in previous stimulations?

You correctly answered: Yes, it is greater than the previous stimulations.

- 3 Does the force generated by the muscle change with each additional stimulus?

You correctly answered: As the stimulus frequency increased, the muscle tension generated by each successive stimulus also increased, and a limiting maximum value was observed.

### Experiment Data

Voltage (v)	Length (mm)	Stimulus	Active Force	Passive Force	Total Force
8.5	75	Single	1.83	0.0	1.83
8.5	75	Multiple	2.87	0.0	2.87
8.5	75	Multiple	3.00	0.0	3.00
8.5	75	Multiple	4.04	0.0	4.04
10	75	Multiple	4.42	0.0	4.42
8.5	75	Multiple	5.20	0.0	5.20

# Skeletal Muscle Physiology Lab Physioex Answer

**Thirumalaisamy P.  
Velavancorresponding**



**Skeletal Muscle Physiology Lab Physioex Answer:**

## **Skeletal Muscle Physiology Lab Physioex Answer** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Skeletal Muscle Physiology Lab Physioex Answer**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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