

Part 1: Threshold Stimulus (V)

Load	Lower Forelimb Muscle	Upper Forelimb Muscle	Calf Muscle	Thigh Muscle
0g				
5g				
10g				
20g				
40g				
80g				

Part 2: Please answer the following questions in complete sentences.

1. Distinguish between smooth and skeletal muscle.

2. What is a skeletal muscle's "threshold of stimulation"? What is the "point of muscle overload"?

- A: Why will a muscle's threshold of stimulation change as its workload changes? What conclusion can you draw about the relationship between the threshold of stimulation and the muscle's workload? Use relevant data to explain your answer.

B: Based upon your experimental data, which muscle type exhibited the lowest threshold of stimulation in all conditions tested? Which muscle type did not reach the point of muscle overload?

- Describe an experiment you might perform to determine which leg muscles of a frog are important for jumping long distances.