Student Name a Date a

**Answer Sheet**

Contraction in Action

|  |  |  |
| --- | --- | --- |
| **Sounds heard – Arm Relaxed** | **Changes heard – Bending Arm** | **Changes heard – Flexing Arm** |
|  |  |  |

Muscle Fatigue

*EMG of the Biceps Muscle*

|  |  |
| --- | --- |
| **General Change in Frequency with Fatigue** | **General Change in Amplitude with Fatigue** |
|  |  |

*Calculating Differences with Fatigue*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Initial Number of Peaks** | **Initial Frequency** (peaks per second) | **Initial Amplitudes** (mV) | | | **Average Initial Amplitude** (mV) |
| **A** | **B** | **C** |
|  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Final Number of Peaks** | **Final Frequency** (peaks per second) | | **Final Amplitudes** (mV) | | | | | | **Average Final Amplitude** (mV) |
| **A** | | **B** | | **C** | |
|  |  | |  | |  | |  | |  |
| **Frequency Decline**  (peaks per second) | | **Average Amplitude Increase**  (mV) | | **Total Time** (seconds) | | **Rate of Frequency Decline**  (peaks per second per second) | | **Rate of Average Amplitude Increase**  (mV per second) | |
|  | |  | |  | |  | |  | |

Application Questions

1. a
2. a