**Review Questions**

1. **Why do you shake when your arms get tired (muscle fatigue)?**
2. **Muscle Filaments**

|  |  |  |
| --- | --- | --- |
| **Muscle Filaments:**  | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Draw**(Label) |  |
| **Function**  |  |
| **What is the difference between the two?** |  |  |

1. **What are the different levels of muscle?**
2. **Be able to Label:**

****

1. **Muscle Contraction:**

|  |  |
| --- | --- |
| **Role of Ca++** |  |
| **Steps** | **1)** **2)** **3)** **4)**  |
| **What is needed for the cycle to repeat?** |  |

1. **2 Ways to Power a Muscle:**

|  |  |
| --- | --- |
| **Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Pro:**  | **Pro** |
| **Con** | **Con** |
| **Being chased by a bear, which would you likely use and why?** |

1. **Why do muscles only pull?**
2. **Why do muscles need to be paired?**
3. **Muscle connection:**

|  |  |
| --- | --- |
| **How are muscle connected to bone?** |  |
| **What is the origin?** |  |
| **What is the insertion of a muscle?** |  |
| **What is the action of a muscle?** |  |
| **Role of the Prime mover** |  **Ex: \_\_\_\_\_** |
| **Role of the Synergist** | **Ex: \_\_\_\_\_** |
| **Role of the Antagonist?** | **Ex: \_\_\_\_\_** |

1. **Identify the 3 muscles types**

|  |  |  |
| --- | --- | --- |
| **Cardiac** | **Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Form** | **A:\muscle1skeletal.gif** | **Form** |
| **Function** | **Function:**  | **Function**  |
| **Circle 1 or both****Voluntary Involuntary**  | **Circle 1 or both****Voluntary Involuntary** | **Circle 1 or both****Voluntary Involuntary** |
| **Location:**  | **Location:** | **Lines organs and digestive system** |

1. **Why doesn't your heart get tired over time?**
2. **Sphincter:**

|  |  |
| --- | --- |
| **Muscle Type:**  |  |
| **Draw:**  |  |
| **Function:**  |  |
| **How does form connect to function?** |  |

1. **Peristalsis?**

|  |  |
| --- | --- |
| **What is it?** |  |
| **What muscle is it?** |  |
| **What is its function?** |  |

1. **What role does electricity have in natural muscle contraction?**
2. **What role does electricity have in artificially induced muscle contraction?**
3. **Galvani's experiment (frog)**

|  |  |
| --- | --- |
| Explain Experiment: |  |
| What did it establish? |  |

1. **What are the 5 key milestones in human evolution?**

|  |  |
| --- | --- |
| **1** |  |
| **2** |  |
| **3** |  |
| **4** |  |
| **5** |  |

1. **How does tooth changes ultimately affect symbolic thought?**