Muscle Contraction Worksheet

| C. | Match these terms with the correct statement or definition: | | Aerobic respiration Anaerobic respiration ATP | Creatine phosphate Oxygen debt Muscle fatigue | |
|----|--|------|--|--|--|
| | | 1. | Molecule used to provide ener | rgy for muscle contraction. | |
| | | | Molecule used to store energy; | can be quickly used to produce ATPs. | |
| | | | Type of respiration that requi | ires oxygen. | |
| | | 4. | Type of respiration that prod | luces lactic acid. | |
| | | | Type of respiration that produmolecule used. | uces the most ATPs for each glucose | |
| | | | Type of respiration used duri | ng short periods of intense exercise. | |
| | | 7. | Amount of oxygen needed to | convert lactic acid to glucose. | |
| | | 8. | | sults when ATP is used during muscle contraction faster than it produced in muscle cells, and lactic acid builds up faster than i removed. | |
| o. | fatigue caused by lac Match these terms with the correct statement or definition: | k of | ATPs. Isometric Isotonic | Muscle tone | |
| | | 1. | Contraction in which the leng amount of tension increases. | th of muscle does not change, but the | |
| | | 2. | Responsible for movements of | f the arms or fingers. | |
| | | 3. | Constant tension produced for maintaining posture. | long periods of time; responsible for | |
| | | | | | |
| | Match these terms with the correct statement or definition: | | Fast-twitch muscle fibers Slow-twitch muscle fibers | | |
| | | 1. | | | |
| | | | Slow-twitch muscle fibers | d contains myoglobin, which | |
| | | 2. | Slow-twitch muscle fibers Most resistant to fatigue. Has a richer blood supply and | | |

Smooth Muscle and Cardiac Muscle

66 Smooth muscle and cardiac muscle form the walls of hollow organs. 99

| Match these terms with the correct statement or definition: | Both smooth muscle and Cardiac muscle Smooth muscle | cardiac muscle | | |
|--|---|---|--|--|
| | Unlike skeletal muscle, of striated. | do not have sarcomeres and therefore are not | | |
| er un an Australian et Antier terrenten gestrom en | 2. Unlike skeletal muscle, | Unlike skeletal muscle, under involuntary control. | | |
| | 3. Capable of autorhythmi | ic contractions. | | |
| | 4. Has intercalated disks, cells. | Has intercalated disks, which facilitate stimulus conduction between cells. | | |
| 66 | eral Principles of Mus | scle Anatomy one toward another across a movable joint. 99 | | |
| Match these terms with the correct statement or definition: | Antagonist Head Insertion | Prime mover Synergists Tendon | | |
| | 1. Attaches a muscle to a b | Attaches a muscle to a bone. | | |
| | 2. End of the muscle attach movement. | End of the muscle attached to the bone undergoing the greatest movement. | | |
| | 3. Muscles that work toget | Muscles that work together to accomplish a movement. | | |
| | _ _ | Muscle that plays the major role in accomplishing a particular | | |