Muscle Vocab Assignment

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| **Across**  **2.** a sheath of fibrous elastic tissue surrounding a muscle.  **6.**  any of the small tubules which run transversely through a striated muscle fiber and through which electrical impulses are transmitted from the sarcoplasm to the fiber's interior.  **10.** a flexible but inelastic cord of strong fibrous collagen tissue attaching a muscle to a bone  **12.** is the functional unit of striated muscle  **13.**  the attachment site that doesn't move during contraction, while the insertion is the attachment site that does move when the muscle contracts  **16.**  is a wispy layer of areolar connective tissue that ensheaths each individual myocyte  **18.** the sheath of connective tissue surrounding a bundle of muscle fibers.  **19.**  A muscle cell, especially one of the cylindrical, multinucleate cells that make up skeletal muscles and are composed of numerous myofibrils that contract when stimulated. | **Down**  **1.**  a protein of muscle that forms a complex with troponin regulating the interaction of actin and myosin in muscular contraction  **3.** the cytoplasm of striated muscle cells  **4.** bundle of skeletal muscle fibers surrounded by perimysium, a type of connective tissue  **5.**  a specialized cell membrane which surrounds striated muscle fiber cells  **7.** a protein of muscle that together with tropomyosin forms a regulatory protein complex controlling the interaction of actin and myosin and that when combined with calcium ions permits muscular contraction.  **8.** cardiac muscle and skeletal striated muscle that functions especially as a storage and release area for calcium.  **9.** A protein found in muscle tissue as a thick filament made up of an aggregate of similar proteins  **11.** are long filaments that run parallel to each other to form muscle (myo) fibers  **14.** The point or mode of attachment of a skeletal muscle to the bone or other body part that it moves.  **15.** A thin, dark disk that transversely bisects the I band (isotropic band) of a striated muscle fiber  **17.** a cellular protein found especially in microfilaments (such as those comprising myofibrils) and active in muscular contraction, cellular movement, and maintenance of cell shape  **20.** That part of the body that contains all of the structures between the chest and the pelvis |