Three types of muscle:

- Skeletal
 - Attaches to bone
 - Longest fibers
 - Has striations
 - Voluntary
 - Rapid contractions, but tire easily
- Cardiac
 - Only in the heart
 - Striated
 - Involuntary
 - Contracts at a steady rate over a long period of time
- Smooth
 - Makes up walls of hollow organs
 - Stomach, intestines, arteries, urinary bladder, respiratory passages,
 - Contractions force stuff through these passages (peristalsis)
 - No striations
 - Involuntary

Functions of Muscle:

- maintains posture
 Storing and moving substances within the open (urine, blood, food Generate body heat

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Properties of Musel

respond to certain stimuli by producing electrical excitability: tn a als called action potention

- Ex: the heart's pacemaker generates autorhythmic electrical signals. The stimulus can also be chemical, such as neurotransmitters, or hormonal.
- Contractility: ability to shorten when stimulated
- Extensibility: ability to be stretched
- Elasticity: ability to return to its original shape and length
- Each muscle is a separate organ made of many tissues (blood vessels, nerve fibers, connective tissue).
- Individual muscles are separated by fascia, which also forms tendons.
- They are made up of thousands of cells called muscle fibers. (muscle fiber = muscle cell).

Anatomy of Skeletal Muscle:

- Connective Tissue Wrappings they join together at the end of the muscle to make the tendons
 - Epimysium covering around the outside of the muscle (dense irregular connective tissue).
 - Perimysium surrounds groups of ten to one hundred fibers. These bundles are called fascicles. (Dense irregular connective tissue).
 - Endomysium covers each individual muscle fiber (areolar tissue).

Muscle Fiber:

- Sarcolemma: Plasma membrane around muscle cell
- Sarcoplasm: Cytoplasm of muscle cell