

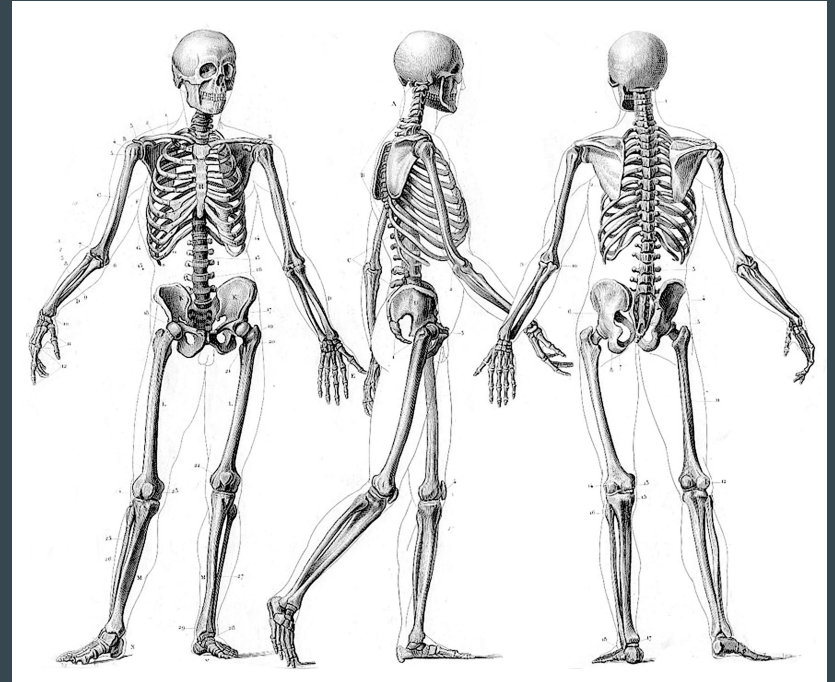
Skeletal and Muscular Systems

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Skeletal System

- Made up of bones, cartilage, ligaments, and tendons
- Provides support for the body
- Protects internal organs
- Store mineral reserves
- Allows movement
- Provide site for cell formation



Muscular System

- Muscles are made of elastic tissues.
- Thousands of small fibers make up each muscle.
- There are three types of muscles
- Skeletal- control voluntary movement.
- Smooth or Visceral- controlled by the unconscious part of the brain. Found in the stomach, blood vessels and small and large intestine. Move food along the digestive tract.
- Cardiac- found only in the heart and is responsible for pumping blood into the blood vessels and into the circulatory system.

The Muscular System



How They Work Together

- The muscles work by pulling on the tendons, which connect muscle to bone
- When this happens, the bones move
- This is called voluntary movement



Our Model

Shows how skeletal and muscular systems work together and independently



What Represents What

1. Our model represents how the skeletal and muscular systems work independently and together.
2. The wood: bone → it independently provides support.
3. Rubber bands: skeletal and smooth muscles → it can exert a force
4. The clay: cartilage → it supports weight
5. The screws: tendons and ligaments → provide joint support and connect muscle to bone
6. The wood wound up by rubber band: the skeletal and muscular systems that work together to allow you to perform voluntary movements.
7. The smooth muscle: rubber bands with a ball between them → shows how the digestive system moves food through the digestion system.

Materials List

- Clay
- Wood
- Screws

- Cup
- Rubber bands
- Small bouncy ball or marble

