Zedua Experiments

Title: Make a Model Hand

Movement of muscles:

A voluntary muscles usually works across a joint. It is attached to both the bones by strong cords called tendons. When the muscles contracts, usually just one bone moves.

Materials Required:

1. A piece of cardboard the size of your hand
2. A pen or pencil
3. Scissors
4. String

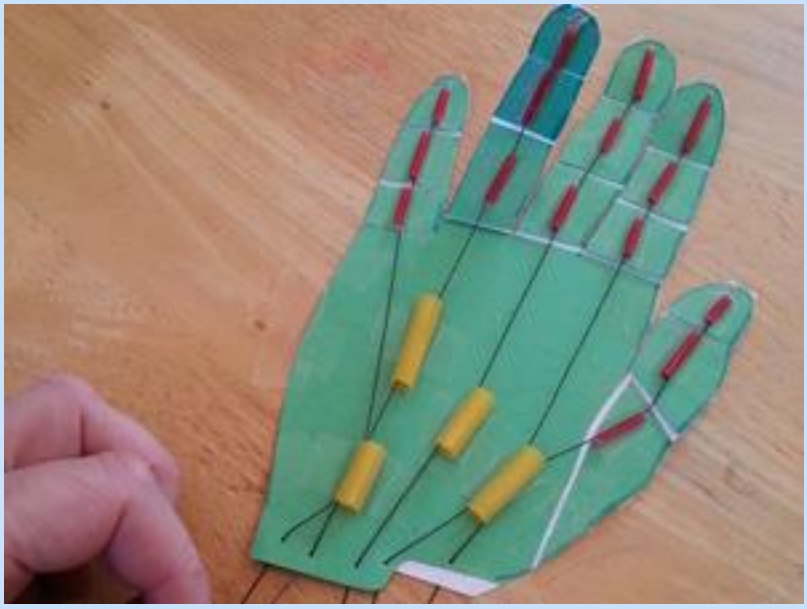
Procedure:

1. Take the piece of cardboard and trace the outline of your hand with a pen or pencil.
2. Take scissors and cut out the shape of your hand.
3. Cut the string into 5 pieces about the length of your hand.
4. Tie a piece of string to the tip of each finger and thumb and stretch it to the base of the palm.
5. Staple the string to the card at the same points where you have joints in your fingers and thumb.
6. Try pulling the strings from the base of the palm, and observe.

What's happening?

The muscles in your body have a very important task to contract. Every movement you make is done by the muscular system, from a simple smile to lifting a heavy box.

The muscles inside your forearm have long tendons running through ligament fibres. They are known as the carpal tunnel, in the wrist. These muscles allow you to flex your fingers, bending the tips towards your palm, as your fingers do when doing any task. In this experiment this is what happens when you pull on the strings of your model hand.



Source: pintrest