

### **Background Information**

A **capillary** is a very small tube.

• In biology, this same term can be used to describe blood vessels

A diameter is a measurement of the size of a circle. The diameter is always measured through the center of a circle, from one side of the circle to the other.

**Capillary action** explains how plants take up water from their roots to the plant. It is the ability of liquids to flow

Watch the Video on Youtube







### **Celery Activity**

Estimated Time to Complete: Overnight

#### **Supplies Needed**

- Celery
- Food Coloring

- Cup
- Water
- 1. Take a **cup** and fill it halfway with **water**
- 2. Add a couple of drops of **food coloring**
- 3. Take a stalk of **celery** and cut off the bottom
- 4. Put the celery stalk in the cup.
- 5. Leave it overnight

What did you observe?





### **Capillary Color Activity**

Estimated Time to Complete: Several hours to Overnight

#### **Supplies Needed**

- 5 Clear Cups
- Food Coloring (Red, Yellow, Blue)
- Water
- Paper Towel
- 1. Put all of your **cups** in a line. Fill the one on each end and in the middle, halfway with **water**.
- 2. Add **food coloring** to the cups with the water putting a different color in each one with yellow in the middle.
- 3. Take **4 pieces of paper towel** and fold them into strips about 2-inches wide.
- 4. Connect the cups with the paper towel
- 5. Leave them for several hours or overnight and observe.

What did you observe?





### **Chromatography Ink & Paper Experiment**

Estimated Time to Complete: Several hours

#### Supplies Needed

- Chromatography Paper or Flattened Coffee Filter
- Water
- Black Marker
- Optional: Other Colored Markers

- Plate
- Dropper
- 1. Take one piece of **chromatography paper** and with a **black marker**, draw a circle or other design around the center of the paper.
- 2. Place the paper on a **plate**.
- 3. Using a dropper, drop several drops of water at the center of the plate.
- 6. Observe the ink as it is transported by the water. This process may take several hours.
- 7. Try this experiment with other markers.

What colors do you observe were used to create a black marker?

What do you observe with different marker colors?

