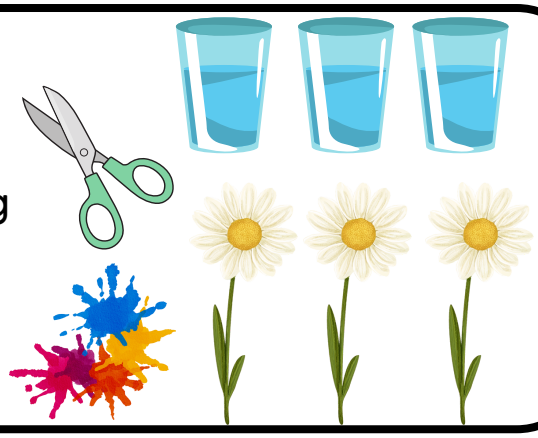
Dye A Flower

Materials Needed:

- 3 White Flowers
- 3 Bottles of Food Colouring
- 3 Cups
- Water
- Scissors



Instructions:

1. Fill each cup with water half way.
2. Add 3 drops of food colouring into each of the cups.
3. Cut the end of each flower's stem.
4. Place each stem into each cup.
5. After 1 hour and 1 day observe your flowers' petals.

How It Works?

The xylem in the flower transports water from the cup up the stem and into the petals of the plant. The dyed water ends up colouring the petals of the plant. The xylem is crucial for the plant to receive water from its roots to its petals.

Growing Bean

Materials Needed:

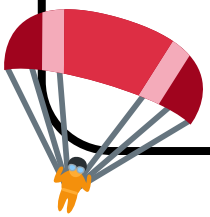
- 1 pinto bean
- 1 Ziploc bag
- 1 paper towel
- Spray bottle with water

Instructions:

1. Dampen paper towel with spray bottle
2. Put the damp paper towel in Ziploc Bag
3. Place the bean on top of the damp paper towel
4. Close and place Ziploc Bag in a warm, sunny spot
5. Keep adding water to paper towel when it dries out
6. Observe your plant growing in 3-5 days!

How It Works?

This is germination! It means the plant is starting to grow its roots. Normally, you can't see the roots sprout when the seed is underground, but in this experiment without soil, you can watch the whole process.



DIY Parachute

Materials Needed:

- Plastic bag
- Hole puncher
- String
- Non-breakable action figure that can be dropped
- Location to drop your parachute from

Instructions:

1. For the canopy, cut the plastic bag into a small square
2. Punch a hole in each corner
3. Cut 4 pieces of strings and put them through each hole
4. Attach the ends of each string and the action figure
5. Adjust your materials and time your fastest fall

How It Works?

Gravity pulls things straight down to the center of Earth. It's powerful enough to make things fall quickly. However, Earth has a layer of air around it that slows down falls. Parachutes catch a lot of air which slows down the fall, making for a softer landing. But this slow fall can be tough to control.