

STEM

Activity Guide Color Changing Flowers

Background:

Do you know that flowers can drink up water and change their own colors into the color of the water they drink? This activity takes white flowers and sees what colors you can make your flowers into using food coloring!

Plants drink water from the ground up through their roots. The water travels up the stem and into the petals of the flower. Although, our flowers didn't have roots anymore they were still able to pull water up from the cup into the stem and up through the flower to the petals.

It is through capillary action that plants are able to defy gravity and pull water up and into their leaves and flowers.

Materials Needed:

- White flowers (recommended carnations, daises or roses recommended)
- Food coloring (your choice)
- Cups for each flower

Rules/Pre-Start Guidelines:

Make sure these flowers are going to be in a safe space where they won't get knocked over! If dye is spilt, clean up immediately!

Instructions:

1. To start you will want to trim down the stems of the flower so they fit your cups or glasses.
2. Add water to each cup.

3. Then put about 10-15 drops of food coloring in the water and stir around a bit.
4. Add at least one flower to each glass of colored water.
5. Check in on the flowers every couple of hours and observe any changes.