

Kitchen Science without Food

Color Changing Flower



Materials: Flower, cup, water and food coloring

Procedure:

- Trim the flower stem to fit the container.
- Add water and food coloring.
- Check every few hours to observe changes.
- The picture above represents 36 hours. I used a daffodil and 7 drops of food coloring. Try to get more dramatic results by increasing the amount of food coloring and/or using different flowers. Try speeding up the process: Compare warm vs cool water.

Coffee Filter Butterfly: Kitchen Science + Art



Materials: Coffee filter, bingo makers or regular markers and water

Procedure:

- Cover your work surface with newspaper or old place mats.
- Make a design on the coffee filter with your markers.
- Add some drops of water and watch what happens.
- Don't like the results? Add more color and/or water.
- Let dry.

Butterfly: Use a bobby pin, clothes pin, pipe cleaner or yarn to turn your coffee filter into a butterfly!
Or turn it into something else. Get creative!

Extensions:

- Experiment with different brands of coffee filters and markers.
- Use different color combinations.

Walking Water

Materials: 3 clear glasses, water, 2 paper towels, food coloring



Instructions:

- Fill 2 glasses with water.
- Add several drops of food coloring to the first glass.
- Repeat with a different color in the second glass.
- Place an empty glass between the two glasses.
- Place paper towels into the glasses as shown above.
- Observe throughout the day. (Takes about 24 hours to achieve final results)

Extensions: Experiment with different color combinations or try using different kinds of towels.

Water Glass Xylophone

Watch and listen to Mrs. Drook play Mary Had a Little Lamb:

<https://www.youtube.com/watch?v=q2uCBefVw8Y&feature=youtu.be>

Procedure:

- Fill six identical glasses with different levels of water: The least-filled glass should contain $\frac{1}{4}$ cup water, the next glass should have $\frac{1}{2}$ cup, then $\frac{3}{4}$ cup...
- Optional: add food coloring to each glass to make the colors of the rainbow.
- As you fill the glasses make predictions about which glass will make the highest sound and which glass will make the lowest.
- Use a wooden spoon to tap the glasses to test your predictions.

Extensions:

- Does the sound change if you hit the top or the bottom of the glass?
- How does the sound change if you use a different “mallet?”
- What happens if you use juice or milk instead of water?
- Make some music!