

Inquiring Minds Want To...GROW!!!

Brought to you by your Park Meadows Science and Technology Team

Milk Art

Question:

Does food coloring dissolve in liquids?

Hypothesis:

If food coloring is dropped into milk then the food coloring will dissolve.

YOU NEED/Materials:

- A bowl
- ½ cup milk (2% or whole milk preferred)
- Dish soap
- Cotton swab
- Food coloring (more than one color)
- Ground black pepper (optional)

Procedure:

1. Pour the milk into the bowl. Be careful not to move the bowl, you want the milk as still as possible.
2. Put one drop of each color of food coloring in different places in the milk.
3. Put just a tiny amount of soap on one end of the cotton swab, then touch it to one of the colors.
4. Now touch the same end of the cotton swab to the other colors.

Results and Conclusion:

Write down the results of your experiment. Was your hypothesis correct?

Other variables to add to the experiment:

- Try changing the temperature of the milk
- Try whole milk and skim milk
- Sprinkle pepper on the milk before you add the soap. What happens next?