

OH WOW!

Tie Dye Milk

Materials :

- Milk
- Food coloring
- Dish soap
- Plate or bowl
- Q-tip

Procedures :

1. Place some milk in a bowl or plate so the entire bottom is covered
2. Add a few drops of food coloring into the milk. Make it as colorful as you'd like!
3. Dip a Q-tip in some dish soap
4. Gently touch the milk with the top of the Q-tip
5. Watch as the colors and milk swirl!

The Science Behind It :

The difference in density between the milk and food coloring makes it easier for the food coloring to move on top of the milk. The food coloring is less dense than the milk, so the drop of food coloring sit on top of the milk. When the dish soap is added to the mixture it breaks up the fat in the milk, so the food coloring begins to move and swirl!

Challenge Tasks :

1. Find new dyes! What else can you use besides food coloring? Do they work the same?
2. Drop the dish soap right in! What happens if you drop the dish soap right into the bowl without a Q-tip? Did it work the same?
3. Create new colors! Use primary colors (red, yellow, blue) and then begin to tie dye. Did it make any new colors?



Additional Resources :

1. <https://www.5minutesformom.com/86728/tie-dye-milk-science-experiment/?fbclid=IwAR3sHa6Z3ksF9M11Mntwoma93xKZEDiMkDFfCCeZtYmUN9vd37xCPYwmJow>
2. <https://www.youtube.com/watch?v=5BTi1w-n70c>