

Magic Milk Experiment & Art

This is a very cool and easy experiment that you can do in your kitchen or outside.

What you will need:

- A dinner plate
- Some milk, enough to cover the inner ring of your plate
- 2 or 3 liquid food colouring colours
- A Q-tip, (or a craft stick)
- A few drops of dish soap
- Camera Phone

Procedure:

On your plate, pour just enough milk to cover most of your plate (pour carefully!)

Drop 2 or 3 drops of each food colour near the centre (they do not have to touch each other)

Put enough drops of dish soap on the end of the Q-tip to coat it (3 is probably good)

Dip your Q-tip into the centre of the milk and watch the colours race away! Quick-take a picture for the assignment!

Pro Tip: After the first part try dropping a drop in 3 or 4 places on the milk and watch the motion keep going and going!

ASSIGNMENT: Using the picture and your memory, use pastels or pencil crayons to colour a replica of the magic milk. Submit them side by side.

The Science Behind Magic Milk:

Milk is made up of minerals, proteins and fats. When the dish soap enters the **milk** the fat begins to break up. The soap molecules run around and try to attach to the fat molecules in the **milk**. Normally this process **would** be invisible to you, but the food coloring helps you to see all of the movement taking place.