

RAINBOW MILK MAGIC! WHO KNEW?!

Get ready to wow your friends and family with some extraordinary rainbow milk magic!

I hate to break it to you but it's actually not magic at all - using the scientific principles of surface tension and the humble dish soap that we use to wash up our dishes and clean our clothes - you can also make milk move in colourful swirls.

Liquid soap has two parts to it one that loves dirt or fat and another that loves water. Milk contains both water and fat so when you add liquid soap to it, it creates constant movement, that is a current!

WHAT YOU NEED

- Shallow Round Metal Cake Tin (or you can use a shallow bowl or plate)
- Milk (full fat and low fat)
- Food Colouring (4 different colours)
- Cotton Wool Ball
- Laundry Liquid Pods
- Dishwashing Liquid

INSTRUCTIONS

Step 1

Pour milk into your cake tin until it is around $\frac{1}{2}$ full. Add drops of different food colouring to the milk.

Step 2

Squeeze some dishwashing liquid onto a plate and dip your cotton wool ball into the liquid. Now place your cotton wool ball in the middle of the milk on one of the dots of food colouring and watch what happens! You will see the colours swirl around and make beautiful colourful patterns.

Step 3

Now you can repeat this experiment using a liquid laundry pod - what happens? What happens if you try the experiment using low fat milk instead of full fat milk?

Is there a difference in the speed at which the colours swirl? Does one work better than the other? Part of being a scientist is trying out different things and making observations. Have fun!

