

## Magic Milk!

Ever wanted to feel like you're magic? This quick and interesting DIY might help.

### Materials:

- A bowl
- Full cream milk
- Dishwashing detergent
- Food colouring
- Eye dropper
- Toothpick or cotton bud



### What to do:

1. Fill up your bowl with milk.
2. Use your eye dropper to put some drops of food colouring in your milk. The more colours, the better!
3. **HANDY HINT** - *Try to keep your bowl as still as possible. You can ruin the experiment if you bump it too early!*
4. **Predict:** What do you think will happen when we add the detergent to the milk?
5. Watch what happens when you put a drop of detergent into your milk. (You could also dip a cotton tip or a toothpick into the detergent). Your milk should start swirling around creating some cool coloured effects! Try blowing gently into your coloured milky mixture. *What happens?*
6. **Hypothesise:** Have a think... Why does the milk start moving?

### What's going on?

This classic experiment gets some amazing results! When the detergent is added to the milk, it causes a chemical reaction! The detergent reacts with the fats and proteins inside the milk and creates little moving currents. These moving currents then drag the food colouring around in a swirly, circular motion. The food colouring helps us observe a phenomena that is typically not visible to us.

