

# Fun with Science



## Tie Dye Milk



### Things you will need:

- Bowl
- Whole milk
- Food colouring – 4 colours
- Washing up liquid
- Toothpick

### Instructions:

Pour some room temperature milk into the bowl. Put one drop of each colour of food colouring into the milk, widely separate from each other. Then carefully put a drop of washing up liquid into the centre of the bowl being careful to drop it onto the milk and not the food colouring. You can dip the toothpick into the soap and place some soap in other places around the bowl. Watch what happens!

### The science behind it:

Food colouring is less dense than milk which is why it sits on the surface of the milk. When you drop the soap into the milk it reduces the surface tension. So the places where the soap is have a lower surface tension that where the soap is not so it pulls away from the soap and the food colouring gets pulled along with it.