

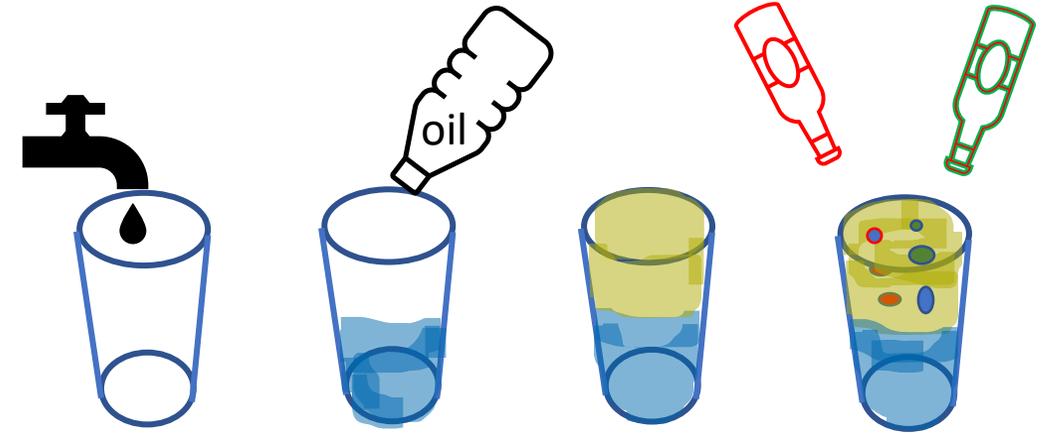
# Dissolving colours

## What you need:

- 60ml cooking oil
- 60ml water
- Small glass
- Blue, red, and green food colouring

## What you do:

- Pour the water into the glass.
- Slowly add the oil so that it floats on top of the water. Let it settle for a minute or two.
- Add small drops of food colouring to the oil, using different colours.
- Watch what happens.
- To speed up the reaction gently touch some of the food colour drops with a pencil pushing them down into the oil.



## The Science

**Oil and water do not mix and so form two layers in the glass. The oil is lighter (less dense) and it will always form the top layer. Food colouring is water based and will mix with water. When you add the food colouring to the glass it enters the oil, some will float near the surface and some sink into the oil to eventually reach the water line. When the food colouring touches the water, the drops will break up and dissolve.**

