

Science Activity

Mixing It Up

What you need:

- Small empty bottle
- Water
- Food colouring
- Vegetable oil or any other cooking oil
- Washing up liquid

Instructions:

1. Fill the bottle about a quarter full with water and add some food colouring to the water.
2. Pour about a tablespoon of oil into the bottle.
3. Screw the lid on tight and shake the bottle as hard as you can.
4. Put the bottle back down and have a look, it may have seemed as though the liquids were mixing together but the oil will float back to the top.

What's happening?

Oil and water just don't mix. They separate and the oil floats above the water because it is less dense. If you want to mix the oil and water try adding some washing up liquid. Washing up liquid is attracted to both water and oil which is why we use it to wash up greasy dishes!

We'd love to see your experiments and hear about what you have enjoyed learning about.