

Magic potions!



Kitchens are full of lots of materials that can be used to make magic potions! Have fun making your own magic! Please make sure that you take care mixing the potions – ask an adult to help you!

Equipment

- A selection of bowls (ideally glass ones)
- A teaspoon
- Food colouring (any colour is fine)
- Bicarbonate of soda
- White vinegar

Method

1. Put a teaspoon of bicarbonate of soda into each bowl.
2. Add a drop of food colouring to each bowl.
3. Pour some vinegar onto the teaspoon and add to the bowls. You may like to add more vinegar for a larger reaction.
4. Wait for the magic reaction!

You could experiment with different amounts of bicarbonate and soda to see if you get a different outcome.

Does adding more / less food colouring have any effect?

What happening?

Vinegar is an acid. When an **acid** mixes with a **base** such as bicarbonate of soda, they **react** and a release a **gas** called **carbon dioxide**. This is what creates the bubbles and fizz. This is an **irreversible change**.

Now try this...

Ice is made when water freezes, this is a **reversible** change it can be turned back into water by adding heat. Ice features a lot in our day to day lives but consider this:



Think of 5 answers.

Visit the BBC website and find out more about types of changes.

<https://www.bbc.co.uk/bitesize/topics/zcqv4wx/articles/z9brcwx>

Complete the table below. An example has been included for you.

Reversible change	Irreversible change
Melting chocolate	Putting bread in the toaster to become toast.

