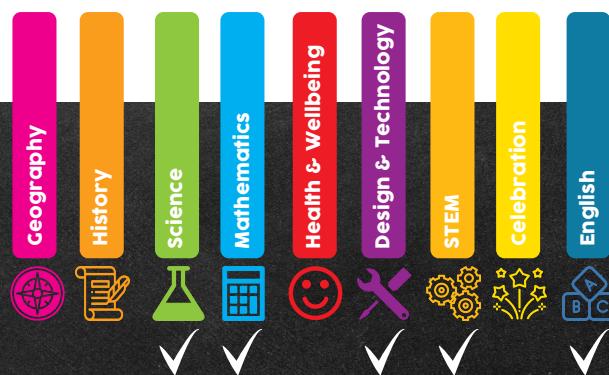


# Supreme Incursions

## Wizard's Brew



Adult  
Guidance



20 Minutes



Grade  
Foundation+

Chemistry is so fun! Experimenting with a range of materials and learning about chemical reactions. This experiment is fantastic because it takes everyday ingredients and turns them into a science experiment!

### The aim

- To understand how the measuring and mixing of every-day ingredients can cause chemical reactions.

### What you will need

Baking soda

Food dye

Dish soap

Vinegar

Glitter (optional)

Beakers or glass jars (per group)

1 x Tray per group/experiment



### Watch the video

Scan the QR code to  
watch the instructions



### Follow these steps

**Step 1** Fill the beaker/jar half-way with vinegar.

**Step 2** Squeeze in some dish soap, stir and place the jar on a tray. Add a few drops of one colour of dye and some glitter (optional). The soap makes it foam rather than fizz.

**Step 3** Add in a heaped teaspoon of baking soda, stir again and watch the foaming begin!

**Tips** Continue adding baking soda and vinegar when the foam starts to slow. To make it change colours, add a tablespoon of vinegar mixed with food colouring. Put this into the centre of the 'brew'.

- Try adding pom poms, gummy bears, googly eyes etc. Do they come up to the surface and bubble over?

### The Science behind it

When bicarbonate soda (a **solid**) and vinegar (a **liquid**) are mixed together they create a **gas**. Gas needs more space, creating **pressure** that forces the overflow. The soap is great for creating foam. We add different colours to the vinegar so that these new elements react with the bicarb, creating a new overflow of colour!

**FUN FACT** When you eat, chemical reactions break down your food into energy! Other examples of chemical reactions are metal rusting, wood-burning, and photosynthesis in plants!