

# Bubble Bomb!

## You will need:

- Water
- A measuring jug
- A sealable plastic bag
- A paper towel
- 2 tablespoons of bicarbonate of soda
- Vinegar

1. Find a place where making a mess won't be the end of the world – outside or in the bathroom if the weather is bad.

2. Test the bag for leaks. Put some water in it, close the seal and turn it over. If no water leaks out, it's okay to use.

3. Tear a piece of paper towel, about 15cm square. Put 2 tablespoons of bicarbonate of soda in the centre of the square and fold the paper around it.

4. Mix 100ml of vinegar and 50ml of warm water (more may be needed if you use a larger bag), then pour in to the plastic bag.

5. Put the paper towel packet into the bag and hold it in the corner away from the vinegar while you seal the bag. Place the bag on the floor and stand back. Watch the bag swell up and then pop!



## The Science

Vinegar is an acid and when you mix it with bicarbonate of soda, they react and turn into different chemicals. In this case, they form a gas. When carbon dioxide gas forms in this experiment, there is not enough room for it in the plastic bag so the pressure builds up and the bag swells until it pops and releases the gas.