

# explorium

## Inflator generator!

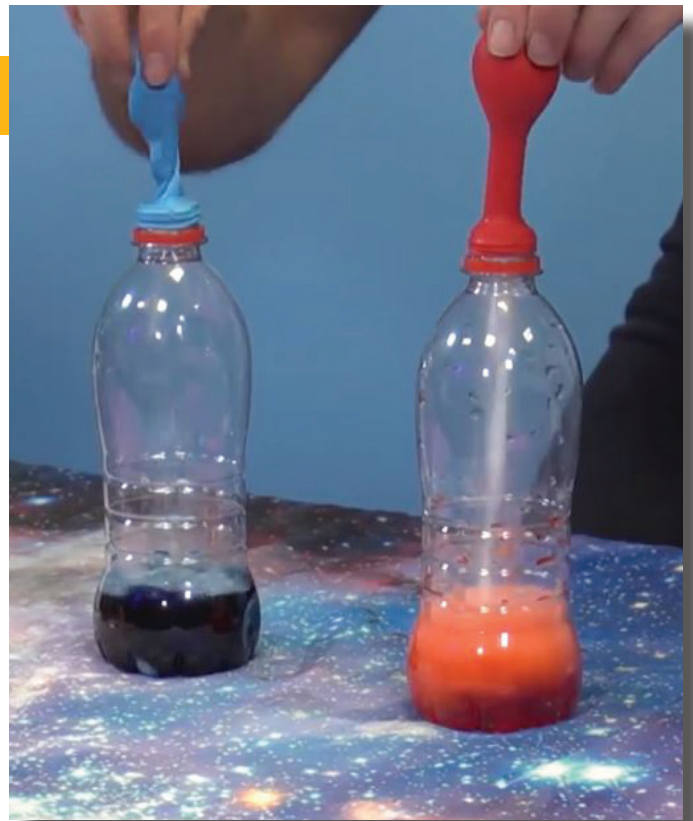
A fun home science experiment using science to make your balloon blowing a little easier!

What you'll need:

- ▶ Plastic bottle
- ▶ Balloon
- ▶ Vinegar
- ▶ Baking soda
- ▶ Funnel or piece of paper
- ▶ Food dye (optional)

What you'll do:

- ▶ Pour vinegar into your bottle (~100ml)
- ▶ Add some food colouring.
- ▶ Then, using a funnel (or a rolled up piece of paper) fill your balloon about half full with baking soda.
- ▶ Attach your balloon to the top of the bottle (making sure no baking soda falls in yet).
- ▶ When your ready, lift the balloon, the baking soda drops into the vinegar, and your balloon will start to expand



What's going on?

The baking soda (a base) and the vinegar (an acid) react together and create carbon dioxide gas (and salt and water). This CO<sub>2</sub> gas expands and increases the pressure inside the bottle, and causes the balloon to inflate!

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