



## BALLOON TRICK

Can you blow up a balloon while it is in a bottle? Try this experiment and see what happens.

### WHAT YOU NEED:

- A 1.5 litre soft drink bottle
- A balloon
- A needle or sharp, pointed object (get a grown-up to help)

### WHAT TO DO:

- Put the balloon inside the bottle and wrap the opening around the mouth of the bottle. You want to stop air from escaping from the bottle.
- Now try to blow up the balloon.

### NOW TRY THIS:

- Poke a hole in the bottle (have an adult do this).
- Try to blow up the balloon again.

Was the result different?

### WHAT HAPPENED?

There was something in that empty bottle to start with – it was full of air.

That air was stuck in the bottle when you covered the opening with the balloon.

You tried to blow up the balloon, but because the bottle was full of air, there was no space for the air that you were trying to put inside.

When you poked a hole in the bottle, the air that was inside could escape through the hole, making space and allowing you to blow up the balloon.

### SO THE LESSON IS:

All matter takes up space – even air.

Try this trick and amaze your friends!



ILLUSTRATION: DREAMTIME

## SCIENCE DICTIONARY

### Matter

Any object that takes up space, like a cookie, a chair, water, air – and you!