

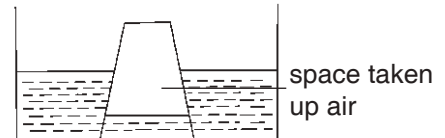
# Air occupies space and has mass



**Experiment** Let's show that air occupies space.

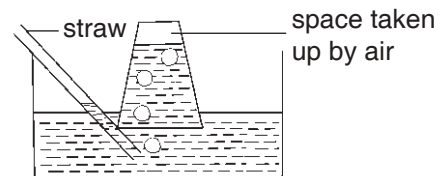
## Method 1

Air takes the space inside the inverted glass, so no water can get in.



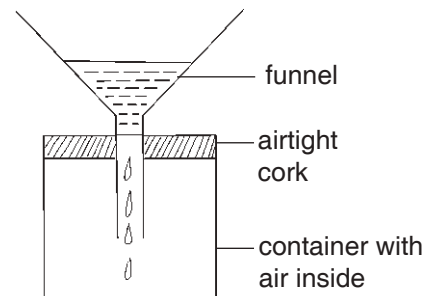
## Method 2

When air is blown in through the straw, bubbles are observed. The water level inside the inverted cup drops because the space near the top is occupied by air.



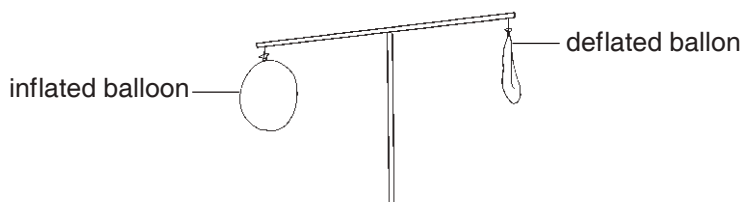
## Method 3

When you try to pour water down a funnel into a container with an airtight cork, you will find that only very little water is able to enter the container. The rest of the water cannot enter because the space inside the container is taken up by air.



**Experiment** Let's show that air has mass.

When you place a deflated balloon on one side of a lever balance and an inflated balloon at the other end, you will see that the side with the inflated balloon tilts downwards. This shows that air has mass.



An experiment to show that air has mass.

Adapted:

PSLE Science Partner

© Singapore Asia Publishers Pte Ltd. All rights reserved.

Reproducible for home/classroom use only.

STRICTLY NOT FOR SALE.

Look for other useful resources: [www.sagrp.com](http://www.sagrp.com)