

# Solids, Liquids & Gas



Let's do an experiment to show what solids, liquids and gases are.

This experiment is similar to the process of burning coal as it turns from a solid into a gas.

## WHAT YOU'LL NEED

- Plastic bottle
- Water
- Balloon
- Alka Seltzer tablets

**Note:** If you don't have Alka Seltzer tablets at home you can also use Berocca or Baking soda and vinegar

## HOW IT'S DONE



1



4



2



5



3



6

## INSTRUCTIONS

- 1 Make predictions on what you think will happen to the tablet when it is placed in the water and when the balloon is sealed over the bottle. In science this is called your 'hypotheses'.
- 2 Fill your bottle with water so that it is 1/3 full.
- 3 Add 1/2 an Alka Seltzer tablet to the water.
- 4 Quickly seal the top of the lid with a balloon and see whether it inflates.
- 5 Add a whole tablet and re-seal the top of the bottle with the balloon.
- 6 Watch the balloon inflate again. Take note of the difference between 1/2 and a full tablet.

## NORTH SYDNEY GAS WORKS

Did you know that Sub Base Platypus operated as the North Sydney Gasworks for 56 years from 1876-1932?

The process of making gas involves the carbonisation of coal in ovens called retorts. This excluded air and caused the gas to condense.