

Combustion experiments

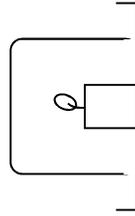
Wear safety glasses

1. Which gas is needed for burning?

1. Light a wooden splint.
2. Remove the bung from the test tube labelled nitrogen and put the splint inside.
3. Repeat this with the test tube labelled oxygen.
4. Light the splint again but this time blow it out.
5. While it is still glowing, put it into the second tube of oxygen.

2. What is produced when fuels burn?

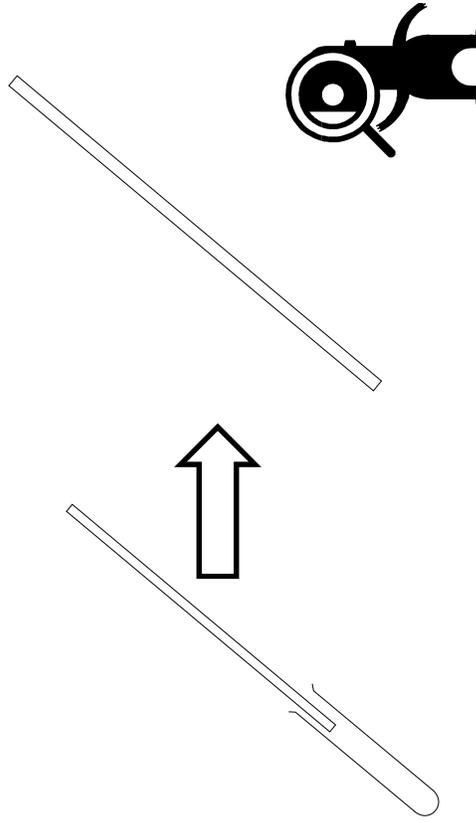
1. Stand a tea light candle in a Petri dish and light it.
2. Put an upside down beaker over the top and watch what happens.



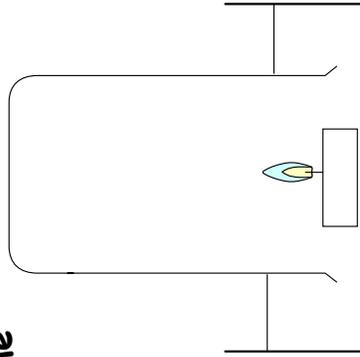
3. Put some lime water in a test tube.
4. Use a pipette to take a sample of the gas in the beaker. Squeeze the gas out under the lime water.
5. Use tweezers to pick up some cobalt chloride paper. Wipe it around the inside of the beaker. Cobalt chloride paper turns from blue to pink when it touches water.

Warning: do not touch cobalt chloride paper with your fingers. Use tweezers.

Draw on what happens to the wooden splint



Draw on what happens to the water level and the flame



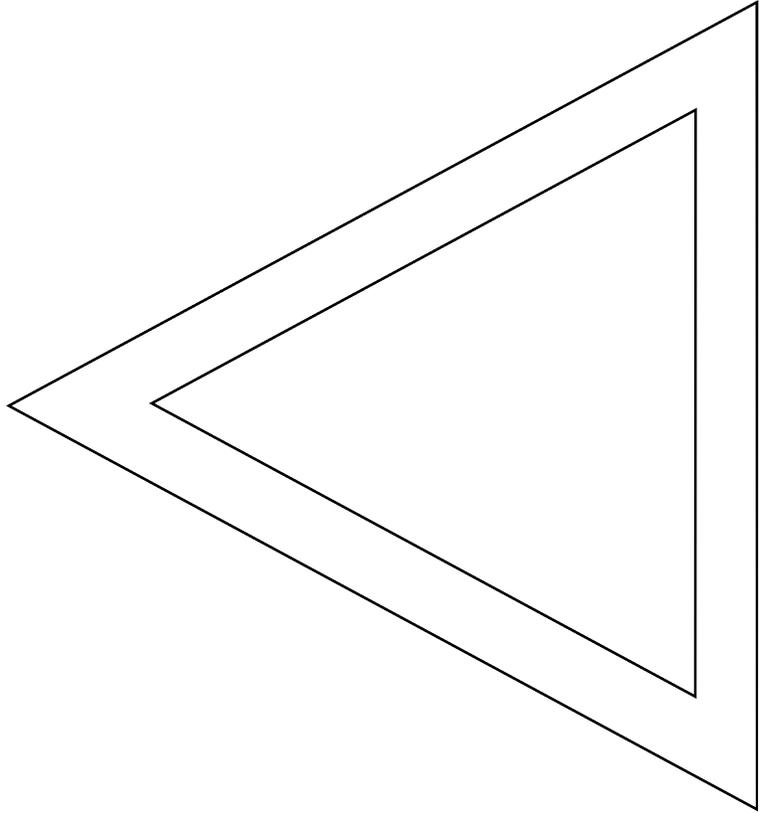
What happened to the lime water?

What happened to the cobalt chloride paper?

Complete the hidden symbols

Citz thought the hidden symbols reminded him of something. It was the fire triangle.

1. Complete the fire triangle.
2. Explain the meaning of the fire triangle to Fiz and Spek.



Which of the 3 things from the fire triangle is removed in each of these fire fighting examples	
A fire extinguisher squirting cold water on a fire	A bulldozer moving trees out of the way of a forest fire
A fire fighter squirting foam on a burning aeroplane	A fire extinguisher that squirts carbon dioxide onto a fire