

Products of Combustion

10SCIE - Fire & Fuels

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Learning Outcomes

- Investigate and test for the products created in combustion.
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Starter

Research and describe the three sides of the fire triangle for a lighter.



Figure 1: Lighter

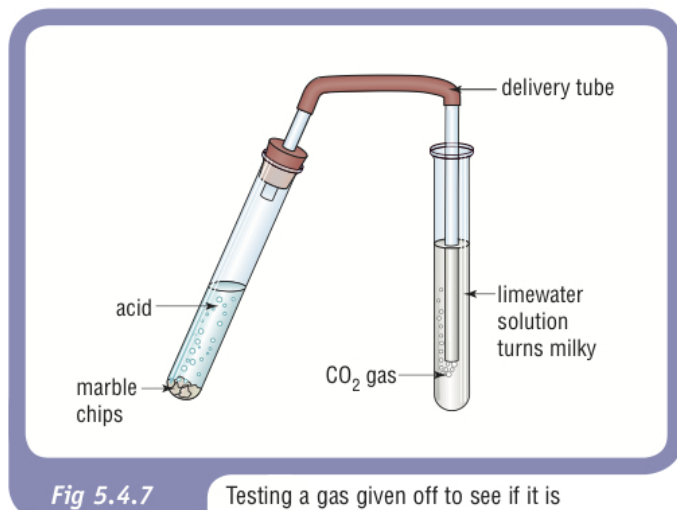
Combustion

Combustion is a very predictable formula. Every time something is burned, **carbon dioxide** or **carbon monoxide** is produced along with **water**.

Test for Carbon Dioxide

Think back to pHun Reactions: **how did we test for the presence of carbon dioxide?**

Write down your answer with a diagram in your exercise book.



Testing for Water

- Does anyone have any ideas on how we can test for water?
- In fact we can use **cobalt (II) chloride strips**
 - The paper goes pink in the presence of water
 - It can be dehydrated and re-used

Practical

- Open to page 7 of your workbook: **What is produced when a candle burns?**
- Read through the experiment carefully
- Come up to the demo bench
- Form into groups of 3-5 and collect the required equipment
- Conduct the experiment (20min)
- Clean up your station