#### Credits

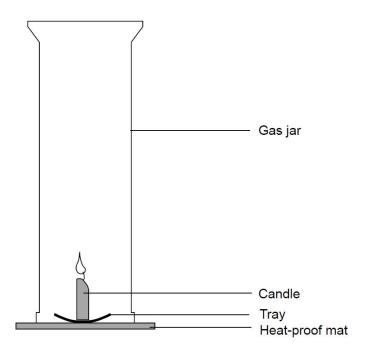
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# Identifying the products of combustion

### Student sheet

### Introduction

Hydrocarbons produce carbon dioxide and water when they burn. In this experiment, you will capture and test the products of combustion.



## What to record

What was done and what was observed.

### What to do

- 1. Set up the apparatus as shown in the diagram. The gas jar should be placed over the lit candle on a heatproof mat.
- 2. When the candle goes out, put a lid on the gas jar.
- 3. Test to see if the candle made water by adding a piece of blue cobalt chloride paper, test the sides of the jar. If it turns pink, water is present.
- 4. Now test to see if carbon dioxide was produced. Pour a little limewater into the gas jar. Swill it around a little. If carbon dioxide is present, the limewater turns cloudy.

# Safety

Wear eye protection.

### Questions

- 1. What is the gas that reacts with the hydrocarbon when it burns?
- 2. What gases does the candle produce when it burns?
- 3. Name another fuel that produces the same gases when it burns.

