Fireworks

What is in a firework?

Fireworks make beautiful displays of colours. In this experiment you can find out which chemicals make colours in fireworks.

What you need

- Periodic Table
- Results table
- Samples of firework chemicals
- Flame test wires
- Distilled water
- Small beaker / test-tube
- Bunsen burner
- Heatproof mat
- Eye protection.

What you do

- 1. Place the Bunsen burner on the heatproof mat. Light the yellow safety flame. Have the gas tap halfway open.
- 2. Put about 20 cm³ distilled water into the test-tube or beaker.
- 3. Turn the Bunsen flame to strong blue flame with the airhole open.
- 4. Dip the wire into the water.
- 5. Dip the wire into the first firework chemical. Only a small amount is needed.
- 6. Hold the wire at the edge of the blue Bunsen flame just above the cone in the centre.
- 7. Look at the colour of the flame. There may also be sparks and the chemical may melt
- 8. When the colour has gone, put the wire or stick back with the sample dish. Make sure they don't get muddled up.
- 9. Test all the firework chemicals in the same way.
- 10. Write down the colours the chemical make in the flame in the results table and answer the questions.

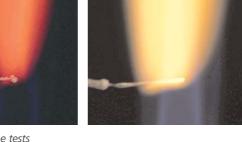
Safety

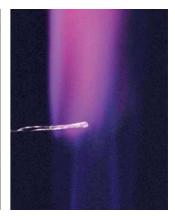
Wear eye protection











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Results table

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Firework chemical	Colour in flame	Other observations
Questio		emicals make different colours? blours not be seen in the chemicals at room temperature?

