

# Burning

## 10SCIE - Fire & Fuels

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2019

### Learning Outcomes

- To describe what is needed for burning to occur.
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### Starter

How would you put this fire out?



### Keywords

- **Combustion:** A chemical reaction between a **fuel** and **oxygen**. Makes heat, light and other product
  - **Fuel:** Any material that releases energy when burned
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- **Vapour:** Many small particles of liquid in the air

- **Ignition:** Starting combustion

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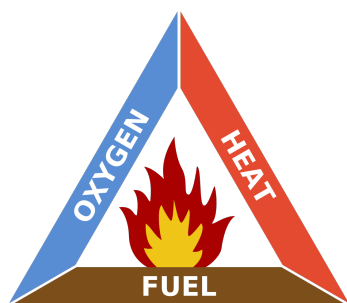
When something is burned, a chemical reaction occurs between the fuel and oxygen.

*magnesium + oxygen* → magnesium oxide

*carbon + oxygen* → carbon dioxide

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## Fire Triangle



If all three sides of the triangle are present, a fire could start. By removing any of the three sides you can put out a fire.

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## Fire-Proof Paper Practical

How can you set paper on fire without destroying it?

**Aim:** Design a simple experiment to show how fuels burn.

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### Materials

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Meths (ethanol)	Water
Paper	Beaker
Tongs	Bunsen

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- 4 groups
- 5mins to think of a method
- Students write down
- 5mins to review methods
- Select best method
- Students run experiment METHS INVISIBLE
- Dip paper in 1:1 meths:water mix
- Use beakers and sink
- Light paper, let burn out
- CLEAN UP, SEATED