



## Pre-visit Information

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## Introduction

Thank you for booking Electricity & Magnetism. The pre-show material has been designed to help familiarise your class with some of the activities they will experience.

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## Curriculum links

**Developing Thinking**







**Developing Communication**



**How Things Work**

- The uses of electricity and its control in simple circuits.
- Forces of different kinds - magnetic.

# Electricity & Magnetism True or False?

<p>In a circuit which has a gap, no electricity can flow</p>	<p>An insulator is a material that electricity flows through easily</p>	<p>A conductor is a material that electricity flows through easily</p>
<p>Metals are good conductors of electricity</p>	<p>All metals are attracted to magnets</p>	<p>If you place two magnets like this                they will attract</p>
<p>If you place two magnets like this                they will repel</p>	<p>This means a bulb in a circuit  </p>	<p>This means a wire in a circuit  </p>
<p>All magnets have North and South poles</p>	<p>It is not safe to do experiments using mains electricity</p>	<p>It is not safe to do experiments using batteries</p>

# Electricity & Magnetism

## True or False?

### Answers

In a circuit which has a gap, no electricity can flow.

*True: electricity can only flow in a complete circuit.*

An insulator is a material that electricity flows through easily.

*False: an insulator is a material that electricity cannot flow through easily.*

A conductor is a material that electricity flows through easily.

*True.*

Metals are good conductors of electricity.

*True.*

All metals are attracted to magnets.

*False: iron and steel are the only commonly found metals that are attracted to magnets.*

If you place two magnets like this N N they will attract.

*False: the magnets will only attract if you place them like this N S*

If you place two magnets like this S S they will repel.

*True.*

This means a bulb in a circuit. 

*True.*

This means a wire in a circuit. 

*False: this symbol is used to show a switch in a circuit. A wire is shown by a continuous line.*

All magnets have North and South poles.

*True.*

It is not safe to do experiments using mains electricity.

*True.*

It is not safe to do experiments using batteries.

*False: using batteries is the safest way to learn about electricity.*