

# Year 6

## Science Understanding

### Biological sciences

Content Descriptor	Lesson Names
The growth and survival of living things are affected by physical conditions of their environment	<p><i>The Environment</i></p> <ul style="list-style-type: none"> <li>• Living and Non-Living Things</li> <li>• MRS GREN</li> <li>• Environments</li> <li>• Extreme Environments</li> </ul> <p><i>Living Things and their Environment</i></p> <ul style="list-style-type: none"> <li>• Non-Living Factors Affecting Plants</li> <li>• Migration</li> <li>• Hibernation</li> <li>• Living Factors Affecting Plants</li> <li>• Non-living Factors Affecting Fungi</li> <li>• Living Factors Affecting Fungi</li> <li>• Non-Living Factors Affecting Animals</li> <li>• Living Factors Affecting Animals</li> <li>• Extreme Environments: The Scorching Deserts</li> <li>• Extreme Environments: The Deep Dark Sea</li> <li>• Extreme Environments: The Freezing Poles</li> </ul>

### Chemical sciences

Content Descriptor	Lesson Names
Changes to materials can be reversible or irreversible	<p><i>Materials and Mixtures</i></p> <ul style="list-style-type: none"> <li>• Pure and Impure Substances</li> <li>• Mixtures</li> <li>• Solubility</li> <li>• Solvents and Solutes</li> </ul> <p><i>Changes in State</i></p> <ul style="list-style-type: none"> <li>• States of Matter</li> <li>• Changing States Through Heating</li> <li>• Changing States Through Cooling</li> </ul> <p><i>Irreversible and Reversible Reactions</i></p> <ul style="list-style-type: none"> <li>• Chemical Changes</li> </ul>

	<ul style="list-style-type: none"> <li>• Irreversible Reactions</li> <li>• Cooking and Burning</li> <li>• Rusting</li> <li>• Physical Changes and Reversible Reactions</li> <li>• Recycling Metal</li> <li>• Recycling Plastic</li> <li>• Recycling Glass</li> <li>• Refrigerators</li> <li>• Melting Polar Ice</li> </ul>
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## Earth and space sciences

Content Descriptor	Lesson Names
Sudden geological changes and extreme weather events can affect Earth's surface	<p><i>Introduction to Earth</i></p> <ul style="list-style-type: none"> <li>• Layers of the Earth</li> <li>• The Atmosphere</li> <li>• The Geosphere</li> </ul> <p><i>Drought</i></p> <ul style="list-style-type: none"> <li>• Weather in the Outback</li> <li>• Effects of Drought</li> <li>• Coping with Drought</li> </ul> <p><i>Cyclones and Floods</i></p> <ul style="list-style-type: none"> <li>• Tropical Cyclones</li> <li>• The Effects of Cyclones</li> <li>• Cyclone Winston 2016</li> <li>• The Queensland Floods of 2011</li> <li>• Bots to the Rescue!</li> </ul> <p><i>Earthquakes</i></p> <ul style="list-style-type: none"> <li>• Earthquakes</li> <li>• Earthquake Hazards</li> <li>• Measuring Earthquakes</li> <li>• Tsunamis</li> <li>• Relief Bots</li> </ul> <p><i>Volcanoes</i></p> <ul style="list-style-type: none"> <li>• Volcanic Eruptions</li> <li>• Living with Volcanoes</li> <li>• Disaster Recovery Robots</li> <li>• Extreme Natural Events</li> </ul>

## Physical sciences

Content Descriptor	Lesson Names
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Electrical energy can be transferred and transformed in electrical circuits and can be generated from a range of sources

#### *Energy*

- Energy
- Types of Energy
- Energy Conservation

#### *Circuits*

- Electricity
- What is Electricity?
- Where Electricity Comes From
- Circuitry
- Open and Closed Circuits
- Circuit Diagrams
- Conductors
- Insulators