

<u>KS3 Science</u>	<u>Autumn HT1</u>	<u>Autumn HT2</u>	<u>Spring HT1</u>	<u>Spring HT2</u>	<u>Summer HT1</u>	<u>Summer HT2</u>
<u>Year 8</u>	<u>Matter 2: Periodic table and Elements.</u> Atoms and Elements Atoms and the periodic table The periodic table Metals and Non-metals Practical The Alkali metals The Halogens Nobel Gases Exploring Polymers Ceramics and composites [This topic will also include approximately 4 'Literacy in Science' Lessons] <u>Energy 1 : Energy Costs and Energy Transfer.</u>	<u>Electromagnets 1 : Voltage & Resistance & Current</u> Describing electric circuits Understanding energy in circuits Explaining resistance MMA 1 Describing series and parallel circuits Comparing series and parallel circuits MMA 2 Investigating static charge Explaining static charge Understanding electrostatic fields [This topic will also include approximately 4 'Literacy in Science' Lessons]	<u>Electromagnets 1 : Voltage & Resistance & Current</u> Describing electric circuits Understanding energy in circuits Explaining resistance MMA 1 Describing series and parallel circuits Comparing series and parallel circuits MMA 2 Investigating static charge Explaining static charge Understanding electrostatic fields [This topic will also include approximately 4 'Literacy in Science' Lessons]	<u>Forces 1 : Speed & Gravity</u> Understanding speed Describing journeys with distance–time graphs Exploring journeys on distance–time graphs Investigating the motion of a car on a ramp MMA 1 Understanding relative motion Understanding forces Understanding gravitational fields Understanding mass and weight MMA 2 Understanding gravity [This topic will also include approximately 3 'Literacy in Science' Lessons]	<u>Forces 1 : Speed & Gravity</u> Understanding speed Describing journeys with distance–time graphs Exploring journeys on distance–time graphs Investigating the motion of a car on a ramp MMA 1 Understanding relative motion Understanding forces Understanding gravitational fields Understanding mass and weight MMA 2 Understanding gravity [This topic will also include approximately 3 'Literacy in Science' Lessons]	<u>Genes 2: Evolution and inheritance</u> Explaining natural selection Understanding the importance of biodiversity MMA 1 Explaining extinction Understanding the nature of genetic material Exploring the role of chromosomes MMA 2 Understanding variation Modelling inheritance [This topic will also include approximately 4 'Literacy in Science' Lessons]

	<p>Understanding energy transfers by fuels and food</p> <p>MMA 1</p> <p>Comparing rates of energy transfers</p> <p>Looking at the cost of energy use in the home</p> <p>Getting the electricity we need</p> <p>MMA 2</p> <p>Using electricity responsibly</p> <p>Energy stores and transfers</p> <p>Exploring energy transfers</p> <p>Understanding potential energy and kinetic energy</p> <p>Understanding elastic potential energy</p> <p>[This topic will also include approximately 3 'Literacy in Science' Lessons]</p>	<p><u>Reactions 2: Chemical energy and types of reaction.</u></p> <p>Understanding exothermic reactions</p> <p>Comparing endothermic and exothermic reactions</p> <p>MMA 1</p> <p>Investigating endothermic reactions</p> <p>Explaining the use of catalysts</p> <p>Exploring combustion</p> <p>Exploring the use of fuels</p> <p>MMA 2</p> <p>Understanding thermal decomposition</p> <p>Explaining changes</p> <p>[This topic will also include approximately 4 'Literacy in Science' Lessons]</p>	<p><u>Reactions 2: Chemical energy and types of reaction.</u></p> <p>Understanding exothermic reactions</p> <p>Comparing endothermic and exothermic reactions</p> <p>MMA 1</p> <p>Investigating endothermic reactions</p> <p>Explaining the use of catalysts</p> <p>Exploring combustion</p> <p>Exploring the use of fuels</p> <p>MMA 2</p> <p>Understanding thermal decomposition</p> <p>Explaining changes</p> <p>[This topic will also include approximately 4 'Literacy in Science' Lessons]</p>	<p><u>Ecosystems 1: Interdependence and plant reproduction.</u></p> <p>Understanding food webs</p> <p>Understanding the effects of toxins in the environment</p> <p>MMA 1</p> <p>Pesticides</p> <p>Exploring the importance of insects</p> <p>Exploring ecological balance</p> <p>Exploring flowering plants</p> <p>Exploring fertilisation</p> <p>MMA 2</p> <p>Understanding how seeds are dispersed</p> <p>Understanding how fruits disperse seeds</p> <p>[This topic will also include approximately 4 'Literacy in Science' Lessons]</p>	<p><u>Ecosystems 1: Interdependence and plant reproduction.</u></p> <p>Understanding food webs</p> <p>Understanding the effects of toxins in the environment</p> <p>MMA 1</p> <p>Pesticides</p> <p>Exploring the importance of insects</p> <p>Exploring ecological balance</p> <p>Exploring flowering plants</p> <p>Exploring fertilisation</p> <p>MMA 2</p> <p>Understanding how seeds are dispersed</p> <p>Understanding how fruits disperse seeds</p> <p>[This topic will also include approximately 4 'Literacy in Science' Lessons]</p>	
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