

	Big Ideas	Year 7	Year 8	Year 9	Year 10	Year 11
<b>B i o l o g y</b>	<b>Cells and cellular processes</b>	Cells, tissues, organs and systems	Unicellular organisms	<i>Key Concepts in Biology</i>	<i>Cells and control Genetics</i>	<i>Key Concepts in Biology</i>
	<b>Biological Systems for Life</b>	Sexual Reproduction in animals Muscles and bones	Food and nutrition	<i>Plant Structures and Their Function</i> <i>Animal Coordination, Control and Homeostasis</i>		<i>Health, Disease and the Development of Medicines</i> <i>Plant Structures and Functions</i> <i>Animal Coordination, Control and Homeostasis</i>
	<b>Organisms and their Interactions with the Environment</b>	Ecosystems	Plants & their reproduction Breathing and respiration	<i>Exchange and Transport in Animals</i>	<i>Ecosystems &amp; material Cycles</i> <i>Natural Selection and Genetic Modification</i>	<i>Exchange and Transport in Animals</i>
<b>C h e m i s t r y</b>	<b>Materials and their properties</b>	The Particle Model Mixtures and separation Atoms, elements & molecules	The Periodic Table Metals and their uses	<i>States of matter</i> <i>Separation techniques</i> <i>Atomic structure</i> <i>The Periodic Table</i> <i>Bonding</i> <i>Calculations involving masses</i>	<i>Covalent Bonding</i> <i>Types of Substance</i> <i>Groups in the Periodic Table</i>	<i>Hydrocarbons, Alcohols &amp; Carboxylic acids and Polymers</i> <i>Qualitative Analysis, Bulk &amp; Surface Properties of Matter including Nanoparticles</i> <i>Transition Metals, Alloys &amp; Corrosion</i>
	<b>Chemical changes</b>	Acids and Alkalis Atoms, elements & molecules	Combustion Metals and their uses	<i>Fuels</i>	<i>Acids and bases</i> <i>Calculations involving masses</i>	<i>Rates of reaction, Heat energy changes in reactions</i> <i>Electrolytic processes, Reversible reactions and Equilibria</i> <i>Quantitative Analysis, Dynamic Equilibria, Calculations Involving Volumes of Gases, Chemical Cells &amp; Fuel Cells</i>
	<b>Our earth and its atmosphere</b>	Atoms, elements & molecules	Combustion Rocks	<i>Earth and atmospheric science</i>	<i>Obtaining &amp; Using Metals</i> <i>Calculations involving masses</i>	
<b>P h y s i c s</b>	<b>Energy</b>	Energy Sound	Light Energy Transfers	<i>Conservation of Energy, Waves and Light &amp; EMS</i>		<i>Waves</i> <i>Light and EM Spectrum</i>
	<b>Forces and Fields</b>	Current Electricity Forces	Earth and Space	<i>Motion</i> <i>Motion and Forces</i>	<i>Forces doing Work</i> <i>Forces and their effects</i> <i>Electricity</i>	<i>Magnetism and Motor Effect</i> <i>Electromagnetic Induction</i> <i>Motion and Forces, Astronomy, Forces and their effects, Static Electricity, Magnetism and Motor Effect, Electromagnetic Induction</i>
	<b>Matter and Materials</b>		Fluids		<i>Radioactivity</i>	<i>Particle Model</i>

						<i>Radioactivity &amp; Forces &amp; Matter</i>
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