

Bellerive FCJ Catholic College



Department: Science

Year Group: 9

Term	Learning Focus	Key Knowledge and Skills	Assessment	Challenge and Enrichment
1	<p>The Earth</p> <p>Reactions</p> <p>Inheritance</p> <p>Ecosystems and Adaptations</p> <p>Metals and Materials</p>	<p>Structure of the Earth and plate tectonics Weathering and sedimentary rocks Igneous & metamorphic rocks The rock cycle The Earth's atmosphere and the carbon cycle Global warming and climate change</p> <p>Chemical reactions Word and symbol equations Oxidation reactions Decomposition reactions Conservation of mass Exothermic and endothermic Catalysts</p> <p>Variation Continuous and discontinuous Inheritance Natural selection and extinction</p> <p>Food chains and webs Ecosystems Disruption to food chains, food webs and Ecosystems Competition Adapting to change</p> <p>Metals with acids Metals with oxygen Reactivity series</p>	<p>End of unit and end of year assessment.</p>	<p>KS3 padlet https://padlet.com/herseyd3/ks3-revision-6geryfp6snzekiyg</p> 

	<p>Electric circuits and Magnetism</p> <p>Light</p> <p>Space</p> <p>Pressure and Turning Forces</p> <p>Heating and Cooling</p>	<p>Displacement reactions</p> <p>Metal extraction</p> <p>Ceramics, polymers and composites 1</p> <p>Ceramics, polymers and composites 2</p> <p>Series circuits</p> <p>Parallel circuits</p> <p>Magnets and magnetic fields</p> <p>Electromagnets</p> <p>Light</p> <p>Reflection and refraction</p> <p>The eye and the camera</p> <p>Colour</p> <p>The night sky</p> <p>The solar system</p> <p>Day and Night</p> <p>The moon</p> <p>Pressure on a solid</p> <p>Pressure in a liquid and gas</p> <p>Turning forces</p> <p>Energy and temperature</p> <p>Energy transfer: Particles</p> <p>Energy transfer: radiation</p>		
2	<p>Energy</p> <p>Particle model and states of matter</p>	<p>Energy Stores</p> <p>Energy transfers</p> <p>Energy resources</p> <p>Conservation and dissipation</p> <p>Work and power</p> <p>Reach: Efficiency</p> <p>Reach: Elastic energy and Hooke's law</p> <p>The particle model</p> <p>Substances</p>	<p>End of unit and end of year assessment.</p>	<p>KS3 padlet</p> <p>https://padlet.com/herseyd3/ks3-revision-6geryfp6snzekiyq</p> 

		<p>States of matter Sublimation: a change of state</p> <p>Cell Systems</p> <p>Plant and animal cells Cell specialisation Respiration Diffusion Prokaryotic cells Active Transport</p>		
3		<p>Static electricity and charge Current, P.D and resistance Series and parallel Magnetism Electromagnetism and induction AC and the National Grid</p> <p>Forces and motion</p> <p>Forces and interactions Mass, weight and fields Speed and distance -time graphs Balanced and unbalanced Resultant forces Acceleration and speed-time graphs</p> <p>Chemical Changes</p> <p>Chemical and Physical changes Reactants and products Writing chemical equations Conservation of mass Energy in chemical changes</p> <p>Fertilisation</p> <p>Sexual Reproduction Preventing Pregnancy Menstrual cycle Investigating seed dispersal Inheriting characteristics Asexual reproduction</p>	<p>End of unit and end of year assessment.</p>	<p>KS3 padlet https://padlet.com/herseyd3/ks3-revision-6geryfp6snzekiya</p> 

	Useful chemical reactions	Using metals The Reactivity series Displacement reactions Extracting metals		
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