



Bellerive FCJ Catholic College



Department: Science

Year Group: 8

Term	Learning Focus	Key Knowledge and Skills	Assessment	Challenge and Enrichment
1	Health and lifestyle	Nutrients Food tests Unhealthy diet Digestive systems Bacteria and enzymes Drugs Alcohol Smoking	Formative assessment KS3 end of topic tests	KS3 padlet https://padlet.com/herseyd3/ks3-revision-6geryfp6snzekiyg 
	Separation techniques	Pure substances and heating and cooling curves Mixtures and dissolving Solubility and temperature Separating rock salt Chromatography Simple and fractional distillation		
	Electricity	Charging up Current Circuits Potential difference Resistance Changing the subject		
	Periodic table	Introduction to periodic table Metal and non-metals- chemical properties The periodic table Group 1 Group 7 Group 0		

	Reactions	Chemical reactions Word and symbol equations Oxidation reactions Decomposition reactions Conservation of mass Exothermic and endothermic Catalysts		
2	The Earth Ecosystems Electric circuits Metals and Materials	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 Food chains and webs Disruption to food chains and food webs Ecosystems Competition Adapting to change Circuit components Building circuits (revisiting V=IR) Series circuits Parallel circuits Electrical safety Metals with acids Metals with oxygen Reactivity series Displacement reactions Metal extraction Ceramics Polymers Composites	Formative assessment KS3 end of topic tests	KS3 padlet https://padlet.com/herseyd3/ks3-revision-6geryfp6snzekiyq 

	Inheritance	Variation Continuous and discontinuous Inheritance Natural selection Extinction		
3	<p>Space</p> <p>Magnetism</p> <p>Light</p> <p>Pressure and turning forces</p>	<p>The night sky The solar system The Earth The moon</p> <p>Electrostatic fields Magnets and magnetic fields Electromagnets Uses of electromagnets</p> <p>Light Reflection Refraction The eye and the camera Colour</p> <p>Energy and temperature Energy transfer: Particles Convection Energy transfer: radiation Insulating homes Pressure on a solid Pressure in a liquid Pressure in a gas Turning forces Centre of mass</p>	<p>Formative assessment KS3 end of topic tests End of year assessment</p>	<p>KS3 padlet https://padlet.com/herseyd3/ks3-revision-6geryfp6snzekiyg</p> 