

Bellerive FCJ Catholic College



Department: Physics (Separates)

Year Group: 10

Bold indicates building on previous knowledge

Term	Learning Focus	Key Knowledge and Skills	Assessment	Challenge and Enrichment
1	Conservation and dissipation of energy	<ul style="list-style-type: none"> • Develop understanding of forms of energy store and energy transfers. Use equations to complete calculate answers to questions for gravitational potential energy, kinetic energy and elastic potential energy. Develop understanding of efficiency and power and use equations to calculate answers to questions. 	Energy End of topic assessments Paper 1 end of year assessment	Booklets with additional questions. Physics padlet with links to additional resources GSCE Pod with videos and additional questions Kerboodle online textbook with additional questions.
	<p>Energy Transfer by heat</p> <p>Electrical circuits</p>	<ul style="list-style-type: none"> • Develop understanding of forms of heat energy transfer. Explain how heat energy transfers through conduction and factors affecting this. Develop understanding specific heat capacity and be able to use the specific heat capacity equation to calculate answer to questions. Complete specific heat capacity practical to develop understanding of how to find the specific heat capacity of different materials. • Develop and understanding of static electricity and electric fields. Develop knowledge of circuit symbols and circuit diagrams. Develop understanding of current, potential difference and resistance. Use equations to calculate answers to questions on current, potential difference, resistance and charge. Understand how to find resistance in a wire by completing the resistance in a wire practical. Understand how to find the component characteristics of different electrical components and complete the component characteristics practical. Develop understanding of what series and parallel circuit 	Electricity End of topic assessment Paper 1 end of year assessment	Booklets with additional questions. Physics padlet with links to additional resources GSCE Pod with videos and additional questions Kerboodle for textbook with additional questions.

		<p>resolving one force into a vertical and horizontal force. Develop and understanding of moments and moments in equilibrium and use equations to calculate the answers to moments questions. Develop an understanding of speed, velocity and acceleration using equations and analysing graphs to answer questions.</p>		<p>Kerboodle for textbook with additional questions.</p>
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