

Year 11 Triple Physics Curriculum Plan

Unit	Core		Hinterland		NC Coverage	Assessment	Whole Education Opportunities
	Knowledge	Skills	Knowledge	Skills			
Magnetism	<ul style="list-style-type: none"> Permanent and induced magnets Earth's magnetic field Electromagnets and the right hand grip rule Magnetic forces and Fleming's left hand rule Transformers and turns ration equation National grid and reducing energy loss in electricity transmission Electromagnetic induction 	<ul style="list-style-type: none"> Substitution into formulae Rearranging equations Using a compass 	<ul style="list-style-type: none"> Uses of electromagnets in everyday life Earth's changing magnetic field Contactless charging 	<ul style="list-style-type: none"> Building a motor Building a generator 	4PM1-2 4PM3 4WV1-6 4WD1-5	End of topic assessment (30 marks) <ul style="list-style-type: none"> PR points use mixed topic assessments 	
Matter	<ul style="list-style-type: none"> States of matter and state changes Kinetic theory Density (including core practical) Specific heat capacity Specific latent heat Core practical: Investigating energy changes in water Elastic and inelastic distortion Core practical: Investigating springs Calculations of force and energy when stretching materials (Hooke's law) Pressure in fluids Pressure and upthrust 	<ul style="list-style-type: none"> Substitution into formulae Rearranging equations Interpreting line graphs Plotting line and scatter graphs Extrapolating lines of best fit Using models and assumptions in science 	<ul style="list-style-type: none"> How thermal heat transfers are used in design and engineering Uses of springs in design and engineering 	<ul style="list-style-type: none"> Calculating specific heat capacity of other materials Identifying properties of materials from force-extension graphs 	4PF2 4PF3 4PS1-4 4WE1-7 4WA1a-h 4WV1-6 4WD1-6	End of topic assessment (30 marks) <ul style="list-style-type: none"> PR points use mixed topic assessments 	<ul style="list-style-type: none">
	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 			<ul style="list-style-type: none">