

Year 11 Curriculum Overview [2022-2023]
Subject – PHYSICS Separate Science

Autumn Term	Knowledge & Understanding			Literacy Skills Opportunities for developing literacy skills	Employability Skills [if any]	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]			
HT1	P8-9 Energy-forces doing work, Forces and their effects	<ul style="list-style-type: none"> • Work and power • Objects affecting each other • Vector diagrams • Rotational forces 	<ul style="list-style-type: none"> • P3 Energy • Physics formula 	<ul style="list-style-type: none"> • Key vocabulary- types of forces 	<ul style="list-style-type: none"> • Structural Engineering • Personal Trainer 	<p align="center">Assessment Point 1 P8-9, P10</p> <p align="center">Feedback lesson</p>
	P10 Electricity and Circuits	<ul style="list-style-type: none"> • Electric circuits • Current and potential difference • Current, charge and energy • Resistance • More about resistance • Core practical-investigating resistance • Transferring Energy • Power • Transferring energy by electricity • Electrical Safety. 	<ul style="list-style-type: none"> • P7 Work and Power • P8 Forces and their affects 	<ul style="list-style-type: none"> • Exam style questions using command words 	<ul style="list-style-type: none"> • Apprenticeship careers – Electrician, at the National Grid (Cadent). 	

HT2	P11 Static Electricity	<ul style="list-style-type: none"> Charges and static electricity Dangers and uses of static electricity Electric Fields 	<ul style="list-style-type: none"> Year 8 electric Fields Static Electricity (KS3) 	<ul style="list-style-type: none"> Exam style questions Key vocabulary 	Electrician	
HT 3	P12 Magnetism & the motor effect	<ul style="list-style-type: none"> Magnets and magnetic Fields Electromagnetism Magnetic forces 	<ul style="list-style-type: none"> P3 conservation of energy 	<ul style="list-style-type: none"> Presenting work Command words Key words 	<ul style="list-style-type: none"> Electrical Engineer Electrician 	
	P13 Electromagnetic Induction	<ul style="list-style-type: none"> Electromagnetic induction The National Grid Transformers and energy 	<ul style="list-style-type: none"> Electric Fields 	<ul style="list-style-type: none"> Command words Description of the National grid. 	<ul style="list-style-type: none"> National Grid 	Assessment Point 2 Mock Paper 1 Physics

Year 11 Curriculum Overview [2022-2023]

Subject – Physics Separate Science

Spring Term	Knowledge & Understanding			Literacy Skills Opportunities for developing literacy skills	Employability Skills [if any]	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]			
HT3	P14 The Particle Model	<ul style="list-style-type: none"> • Particles and density • Core practical-investigating density • Energy and changes of State • Energy Calculations • Core practical-investigating water • Gas Temperature and Pressure • Gas pressure and volume 	<ul style="list-style-type: none"> • Magnetism & its Effects • KS3 Review – Fluids 	<ul style="list-style-type: none"> • Devising experiments relating to Core Practicals • Sentence structure 	<ul style="list-style-type: none"> • Glaciologists • Heating systems designer • ISS research 	<p>Assessment point 3</p> <p>Class Assessment Paper 2 Content</p>
HT4	P15 Forces and matter	<ul style="list-style-type: none"> • Bending and stretching • Extension and energy transfers • Core practical-investigating springs • Pressure in fluids • Pressure and upthrust 	<ul style="list-style-type: none"> • The Particle Model • KS3 Review – Forces, Forcefields 	<ul style="list-style-type: none"> • Evaluating processes 	<ul style="list-style-type: none"> • Mechanical engineer • Pole vault • Aerospace engineer • Manufacturing 	<p>Assessment Point 4</p> <p>Mock Examination Paper 2 Physics</p>

Year 11 Curriculum Overview [2022-2023]

Subject – Separate Science - Physics

Summer Term	Knowledge & Understanding			Literacy Skills Opportunities for developing literacy skills	Employability Skills [if any]	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]			
HT5	GCSE Preparation	<ul style="list-style-type: none"> Physics 			<ul style="list-style-type: none"> N/A 	GCSE Examinations