

<u>Physics: Curriculum Overview</u> <u>Year 11 – Combined Science GCSE – Physics</u>

Term	Topic studied	What will I learn?	How will I be assessed?
Year 11 Autumn	Electromagnetic Waves	The electromagnetic Spectrum Light, infrared, microwaves and radio waves - Required practical Investigating infrared Radiation Communications Ultraviolet waves, X-rays, and Gamma Rays X-rays in medicine	End of Topic Tests
	Electromagnetism	Magnetic Fields Magnetic fields of electric currents The motor effect	
	Revision	Forces Revision Review of required practical 6 and 7 famark question on resultant forces using describe command words Drawing graphs (including line of best fit) Evaluating graphs of motion Forces equation and calculation practice Wave revision Review required practical 8 Recall properties of waves Use the wave equation Standard form for massive or minute numbers	Year 11 Mock Full paper 2
Year 11 Spring	Revision	Energy Revision Review required practical 1 and 2 Energy calculations practice Gmark questions on energy resources using Compare and Evaluate command words Describing trends in graphs and data Electricity Revision Review required practical 3 and 4 Electricity calculation practice Multi step equation questions Molecules and matter revision Review required practical 5 Density calculations Unit conversions Gmark questions on describe an investigation Radioactivity	Open book exam practice (timed in class under exam conditions) Exam practice (timed in class under exam conditions)

		 Properties of the atom recall Interpreting and drawing graphs – half life 	
Year 11 Summer	Revision and Exams	Walking talking mock Command words and how to answer 6 mark questions Multi stage calculations and the equation sheet Review of the 10 required practicals Practice past papers	