

Subject	Physics		
	Interpretation of National Curriculum into Year group Endpoints		
Year	Term 1	Term 2	Term 3
11	<p>Students will describe and explain the concepts of:</p> <p>P5 Forces</p> <ul style="list-style-type: none"> • forces and fields: electrostatic <p>P6 Waves</p> <ul style="list-style-type: none"> • amplitude, wavelength, frequency, relating velocity to frequency and wavelength • transverse and longitudinal waves • electromagnetic waves, velocity in vacuum; waves transferring energy; wavelengths and frequencies from radio to gamma-rays • velocities differing between media: absorption, reflection, refraction effects • production and detection, by electrical circuits, or by changes in atoms and nuclei • Ray diagrams • Seismic waves • uses in the radio, microwave, infra-red, visible, ultra-violet, X-ray and gamma ray regions, hazardous effects on bodily tissues. 	<p>P7 Magnetism and electromagnetism</p> <ul style="list-style-type: none"> • exploring the magnetic fields of permanent and induced magnets, and the Earth's magnetic field, using a compass • magnetic effects of currents, how solenoids enhance the effect • how transformers are used in the national grid and the reasons for their use <p>P8 Space physics</p> <ul style="list-style-type: none"> • the main features of the solar system • life cycle of stars • orbital motion, natural and artificial satellites • red shift <p>Students will complete PPEs, review these papers and then follow a structured revision program of all 8 units of study that make up GCSE Physics.</p>	<p>Students will take the two exams which make up the assessment for GCSE Physics.</p>