

Subject	Physics		
	Interpretation of National Curriculum into Year group Endpoints		
Year	Term 1	Term 2	Term 3
12	<p>Students will describe and explain the concepts of:</p> <p>Particles and Radiation Constituents of the atom Stable and unstable nuclei Particles, antiparticles and photons Particle interactions Classification of particles Quarks and anti-quarks Photoelectric effect Energy levels and photon emission Wave-particle duality</p> <p>Mechanics and materials Scalars and vectors Moments Equations of linear accelerated motion Newtons laws of motion Momentum Work, energy and power Bulk properties of solids Youngs modulus</p>	<p>Students will describe and explain the concepts of: Term 2</p> <p>Waves Progressive, longitudinal and transverse waves Superposition and stationary waves Interference Diffraction Refraction</p> <p>Electricity Basics of electricity I-V characteristics Resistivity Circuits Potential divider E.M.F and internal resistance</p>	<p>Students will describe and explain the concepts of: Term 3</p> <p>Further mechanics Circular motion Simple Harmonic motion Simple Harmonic systems Forced vibrations and resonance</p> <p>Capacitance Energy stored by capacitor Capacitor charge and discharge</p>