

Year 12 Physics Overview 2023-24

	Term 1	Term 2	Term 3
Unit Title	Y12 Physics	Y12 Physics	Y12 Physics
Approximate Number of Lessons	28	24	22
Curriculum Content	3.1 Measurements and their errors 3.1.1 Use of SI units and their prefixes 3.1.2 Limitation of physical measurements 3.1.3 Estimation of Physical Quantities 3.2 Particles and radiation 3.2.1 Particles 3.2.2 Electromagnetic radiation and quantum phenomena 3.4 Mechanics and materials 3.4.1 Forces, energy and momentum	3.4 Mechanics and materials 3.4.1 Forces, energy and momentum 3.4.2 Materials 3.3 Waves 3.3.1 Progressive and stationary waves 3.3.2 Refraction, diffraction and interference 3.5 Electricity 3.5.1 Current electricity	3.5 Electricity 3.5.1 Current electricity 3.6 Further mechanics and thermal physics 3.6.1 Circular, SHM and Periodic motion
Links to prior learning	GCSE Units: P1 Energy, P3 Models of Matter, P4 Atomic Structure	GCSE Units: P2 Electricity, P4 Forces, P6 Waves	GCSE Units: P2 Electricity, P3 Particle Models of Matter
Cultural Capital Opportunities	<ul style="list-style-type: none"> Suggested activities - Visit Science Museum, Attend Cambridge free astronomy sessions, Space Centre visit, Cern Reading suggestions- Advanced Physics for You, Deep Down Things, 30 Years That Shocked physics, Fundamental, Mad about Physics Online resources- Fermi-lab Channel, Veritasium Channel, Smarter Every day Channel, Physics Girl Channel, Physics Online Channel (revision site) School Physics Classroom site, PBS Spacetime Channel. 		
Assessment Focus	End of Unit Assessments on units: 3.1 and 3.2	End of Unit Assessments on units: 3.3, 3.4.1 and 3.4.2	End of Unit Assessments on units: 3.5 and 3.6.1
Name of Knowledge Organiser/Link to Organiser	Physics KO – Physics Teams		