

A level Physics Curriculum Plan Year 12

Term	Units taught	Required practical
Autumn Term	Maths Preparation	
	Chapters 6-10 Mechanics	Determination of g by a free-fall method
	Chapter 11 Materials	Determination of the Young modulus by a simple method
Spring Term	Chapters 4-5 Waves and Optics	Frequency of stationary waves Interference effects
	Chapter 1 Particles and radiation	
	Chapters 2-3 Quantum	
Summer Term	Chapters 12-13 Electricity	emf and internal resistance of electric cells and batteries Determination of resistivity of a wire
	Further Mechanics (Y13 material)	

A level Physics Curriculum Plan Year 13

Term	Units taught	Required practical
Autumn Term	Chapters 17-18 Further Mechanics	Simple harmonic motion using a mass-spring system & simple harmonic motion using a simple pendulum
	Chapter 21 Gravitational Fields	
	Chapter 22 Electrical Fields	
	Chapter 23 Capacitors	Charge and discharge of capacitors
Spring Term	Chapters 24-25 Magnetic Fields and EM Induction	Force on a wire Magnetic flux linkage
	Chapter 26 Radioactivity	Inverse-square law for gamma radiation
	Chapter 27 Nuclear Energy	
	Chapter 19-20 Thermal physics	Boyle's law and Charles's law
Summer Term	Chapter 28 Optional topic	
	Revision and exams	