

Physics

	Year 10 Separates	Year 10 Combined	Year 11 Separates	Year 11 Combined
A u t u m n 1	Particle Model States of matter Internal energy Specific latent heat Gas pressure, temperature and volume	Particle Model States of matter Internal energy Specific latent heat	Waves Transverse and longitudinal waves The wave equation Reflection and refraction Sound waves and ultrasound Seismic waves	Waves Transverse and longitudinal waves The wave equation Reflection and refraction
A u t u m n 2	Radioactivity Structure of an atom Radioactive decay Uses of radiation Half-life calculations Fission and fusion	Radioactivity Structure of an atom Radioactive decay Uses of radiation Half-life calculations	Waves Electromagnetic spectrum Uses of electromagnetic waves Reflection and refraction of light Colour Lenses	Waves Electromagnetic spectrum Uses of electromagnetic waves
S p r i n g 1	Electricity Electrostatics Current and resistance Potential difference Characteristics of components	Electricity Electrostatics Current and resistance Potential difference Characteristics of components	Electromagnetism Magnetic Fields Electromagnets The motor effect The generator effect Transformers	Electromagnetism Magnetic Fields Electromagnets
S p r i n g 2	Electricity Alternating current Cables and plugs Power Efficiency of electrical devices	Electricity Alternating current Cables and plugs Power Efficiency of electrical devices	Astrophysics Formation of our solar system Lifecycle of a star Orbits The start and end of the universe	Revision
S u m m e	Forces and Motion Vectors and scalars Equal and opposite forces Moments, levers and gears Adding and resolving forces Motion graphs	Forces and Motion Vectors and scalars Equal and opposite forces Motion graphs		

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S u m m e r 2	Forces and Motion Force and acceleration Terminal velocity Stopping distance Momentum Elasticity Pressure	Forces and Motion Force and acceleration Terminal velocity Stopping distance Momentum Elasticity		