

Physics

| | Year 10 Separates | Year 10 Combined | Year 11 Separates | Year 11 Combined |
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| A u t u m n 1 | Electricity Electrostatics Current and resistance Potential difference Characteristics of components | Electricity Electrostatics Current and resistance Potential difference Characteristics of components | 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 | Electricity Alternating current Cables and plugs Power Efficiency of electrical devices | Electricity Alternating current Cables and plugs Power Efficiency of electrical devices | 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 | 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 | Electromagnetism Magnetic Fields Electromagnets The motor effect The generator effect Transformers | Electromagnetism Magnetic Fields Electromagnets |
| S p r i n g 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 | 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 | | |