

Science - Physics

Key Stage 4 - Year 10 – Combined Science

Term One	Term Two	Term Three
Waves	Electricity	Forces
<ul style="list-style-type: none"> • Electromagnetic spectrum • Radiation • Absorption 	<ul style="list-style-type: none"> • I - V Characteristics • LED • Diode • LDR • Filament lamp • Ohmic conductors • Energy • Voltage • Charge • Household electricity • Power 	<ul style="list-style-type: none"> • Speed • Velocity • Graphs • Acceleration • Equations of uniform acceleration
Energy	Working Scientifically	
<ul style="list-style-type: none"> • Changes in Energy (EP, EK and Conservation of Energy) 	<ul style="list-style-type: none"> • Working scientifically 	
Electricity	Forces	
<ul style="list-style-type: none"> • Currents and voltages in series and parallel • Voltage • Current • Resistance • Charge • Investigating resistance 	<ul style="list-style-type: none"> • Scalars • Vectors • Resultant forces • Components of a vector • Work done • Hooke's law 	



Science - Physics

Key Stage 4 - Year 11 – Combined Science

Term One	Term Two	Term Three
Forces <ul style="list-style-type: none">• Newton's laws• Inertia• Terminal velocity• Gravity• Stopping distances• Momentum	Magnesium and Electromagnetism <ul style="list-style-type: none">• Motor effect	Exams <ul style="list-style-type: none">• Revision and exams
Magnesium and Electromagnetism <ul style="list-style-type: none">• Magnetic fields• Electromagnets	Atomic Structure <ul style="list-style-type: none">• Structure of the atom• Isotopes• Development of the model of the atom• 3 types of radiation• Nuclear equations• Half-life	