Science - Physics



Key Stage 4 - Year 10 - Triple Award

Term One	Term Two	Term Three
Waves	Electricity	Forces
 Electromagnetic spectrum Radiation Absorption 	 I - V Characteristics LED Diode LDR Filament lamp Ohmic conductors Energy Voltage Charge Household electricity Power 	 Moments Gears Pressure Upthrust Atmospheric pressure Speed Velocity Graphs Acceleration Equations of uniform acceleration
Energy	Working Scientifically	
 Changes in Energy (EP, EK and Conservation of Energy) Thermal insulation 	Working scientifically	
Particle Model of Matter		
 Pressure in gases – pV=K 		

Science - Physics



Electricity	Forces	
 Static electricity Currents and voltages in series and parallel Voltage Current Resistance Charge Investigating resistance 	 Scalars Vectors Resultant forces Components of a vector Work done Hooke's law 	





Key Stage 4 - Year 11 - Triple Award

Term One	Term Two	Term Three
 Newton's laws Inertia Terminal velocity Gravity Stopping distances Momentum 	 Magnesium and Electromagnetism Motor effect Electromagnetic induction and Transformers 	Revision and exams
 Waves Investigating reflection and refraction Sound Ultrasound Seismic waves Lenses Black body radiation 	 Atomic Structure Structure of the atom Isotopes Development of the model of the atom 3 types of radiation Nuclear equations Half-life Uses and dangers Fission and fusion 	

Science - Physics



Magnesium and Electromagnetism	Space	
 Magnetic fields 	Solar system	
 Electromagnets 	Orbital motion	
	 Satellites 	
	Life cycle of stars	
	Red shift	
	Big Bang	