

## PHYSICS

	AUTUMN TERM 1	AUTUMN TERM 2	SPRING TERM 1	SPRING TERM 2	SUMMER TERM 1	SUMMER TERM 2
	Topics	Topics	Topics	Topics	Topics	Topics
<b>YEARS 7 and 8</b>	Key Stage 3 curriculum					
<b>YEAR 9</b>	Energy stores Work Done and Power	Efficiency Energy Resources	Solid Liquid Gases, Density calculations, Specific Heat Capacity	Latent Heat Particle motion of gases, Pressure	Atomic Structure, Isotopes, Rutherford Experiment	Alpha, Beta, Gamma Radiation
<b>YEAR 10</b>	Radioactive Half lives, Uses of radioactive sources, Nuclear Fission/Fusion	Electricity Current, Voltage, Ohms law, series and parallel circuits	IV graphs for electrical components, Electrical Power, Domestic Electricity, Static Electricity	Resultant Forces, Vectors, Hookes Law, Moments, Pressure	Atmospheric Pressure, Dist/Vel time graphs, terminal velocity	Newtons Laws, Stopping distances, Momentum
<b>YEAR 11</b>	Momentum recap, Sound waves, Reflection, Refraction, Ultrasound, EM waves	Lenses, Black body radiation	Space Physics	Magnetisim, Electromagnetism	Revision	
<b>YEAR 12</b>	Materials and Particle Physics	Quantum Physics, Dynmamics	Electricity, Newtons Laws, Forces in Equilibrium	Momentum, Waves	Stationary Waves, Work Energy and Power	Optics, Simple Harmonic Practical
<b>YEAR 13</b>	Circular Motion, SHM, Thermal Physics and Gases	Gravitational Fields, Radioactivity, Nuclear Physics	Electric Fields, Capacitors	Astronomy, Magnetic Fields	Practical Skills, AC theory	