

		Term 1			Term 2			Term 3			Term 4		
Module		Circular motion	Thermal physics	Ideal gases	Oscillations	Circular motion	Gravitational fields	Gravitational fields	Stars	Cosmology			
Physics Yr 13	Maths skills for physics	Radians and angular velocity, Centripetal acceleration, Exploring centripetal forces	Temperature, Internal energy, Specific heat capacity, Specific latent heat	Kinetic theory of gases, Gas laws, RMS speed, The Boltzmann constant, PAG 8: Investigating gases	Simple harmonic motion, damping and driving, resonance	Radians and angular velocity, Centripetal acceleration, Exploring centripetal forces	Gravitational fields, Newton's laws of gravitation, Gravitational field strength, Kepler's laws, Satellites, Gravitational potential, Gravitational potential energy	Gravitational fields, Newton's laws of gravitation, Gravitational field strength, Kepler's laws, Satellites, Gravitational potential, Gravitational potential energy	Objects in the universe, Lifecycle of stars, H-R diagram, Energy levels in atoms, Spectra, Analysing starlight, Stellar luminosity	Astronomical distances, The Doppler effect, Hubble's law, The Big Bang theory, Evolution of the Universe	Review and assessment of A level content		
PAGS		PAG 12.1: Research project	PAG 8.2: Investigating the relationship between pressure and volume		PAG 10.1: Investigating factors that affect SHM	PAG 12.1: Research project							
Module		Capacitance			Electrical fields + magnetic fields			Particle physics	Radioactivity	Nuclear physics	Medical imaging		
Physics Yr 13	Maths skills for physics	Capacitors in circuits, Energy stored in capacitor, Charging capacitors, Discharging capacitors,			Electric fields, Coulomb's law, uniform electric fields and capacitance, electric potential and energy			Atomic model theories/history, The nucleus, Antiparticles, hadrons and leptons, Quarks, Beta decay	Radioactivity, Nuclear decay equations, Half-life and activity, Modelling radioactive decay, Radioactive decay calculations, Radioactive dating,	Einstein's mass-energy equation, Binding energy, Nuclear fission, Nuclear fusion	X-rays, Interaction of X-rays with matter, CAT scans, The gamma camera, PET scans, Ultrasound, Acoustic impedance, Doppler imaging	Review and assessment of A level content	
PAGS								PAG 7.1: Investigating the random nature of radioactive decay					