Physics		
	Year 12	Year 13
	Forces, Motion and Energy (Topic: HFS)	Electromagnetism (Topics: TRA, PRO and MDM)
	Kinematics	Motors and generators
	Moments	Faraday's law and Lenz's law
	Energy Calculations	Transformers
	Projectile Motion	Coulomb's law
Α		Electric and magnetic field strength
u	Waves (<i>Topic</i> : MUS)	Radial and uniform fields
t	Oscillations and waves	
u	Radians, phase and antiphase	Astrophysics (<i>Topic</i> : STA)
m	Superposition of waves	Astronomical measurement
n	Standing waves	Life-cycle of stars
	Photon model of light	The big bang, the expansion of the universe and the end of the universe
	Absorption and emission spectra	
	Electron energy levels	Waves (Topic: MDM)
		Total internal reflection
		Attenuation
	Electricity (<i>Topic</i> : SPC)	Radioactivity (<i>Topic</i> : STA)
	Current, potential difference, resistance and power calculations.	Radioactive decay
	Thermistors and light dependent resistors (LDRs)	Half-life
	Internal resistance and emf	Fission and fusion
S	Quantum Mechanics (Topic: SPC)	Force and Motion (<i>Topics</i> : STA and BLD)
р	Energy of photons	Newton's laws of gravitation
r	Photoelectric effect	Circular motion
i	Threshold frequency and work function	Simple harmonic motion
n		Resonance and damping
g	Materials (Topic: EAT)	
	Viscosity and Stokes' law	Thermodynamics (<i>Topics</i> : STA and BLD)
		Heat capacity and latent heat
	Waves (<i>Topic</i> : EAT)	Phase change
	Refraction	Gas laws
	Polarisation of waves	

	Electricity (<i>Topics</i> : DIG and TRA)	Revision and Assessment.
	Resistivity	
	Conductivity	
	Capacitors	
	Charging and discharging curves	
	Resistor-capacitor circuits	
	Quantum Mechanics (<i>Topic</i> : DIG)	
	Diffraction of x-rays and electrons	
	Wave-particle duality	
S	De Broglie wavelength	
u		
m	Materials (<i>Topic</i> : SUR)	
m	Hooke's law	
е	Stress, strain and the Young modulus	
r	Elastic strain energy	
	Waves (Topic: SUR)	
	Converging and diverging lenses	
	The lens equation	
	Particle Physics (<i>Topic</i> : PRO)	
	Fundamental particles: quarks and leptons	
	Quark composition of hadrons	
	Exotic particles and the 'particle zoo'	
	Particle interactions	