

TIER	TOPIC	SUB HEADING	KEYWORDS	OCR B MODULE P1	OCR B MODULE P2	OCR B MODULE P3	OCR B MODULE P4	OCR B MODULE P5	OCR B MODULE P6
F/H	Thermal energy	Temperature and heat	joules, degrees	y					
F/H	Thermal energy	Kinetic theory	changes of state	y					
F/H	Thermal energy	Conduction	energy transfer	y					
F/H	Thermal energy	Convection	energy transfer	y					
F/H	Thermal energy	Radiation	infra-red	y					
F/H	Thermal energy	Rate of energy transfer	surface area	y					
F/H	Thermal energy	Energy saving	insulator, U-value, double glazing	y					
F/H	Thermal energy	Solar energy	solar heating, solar cell, solar panel		y				
F/H	Thermal energy	Specific heat	specific heat capacity	y					
F/H	Using and generating electricity	Generating electricity	fossil fuels, biofuels, renewable, non-renewable, turbine, power station, greenhouse gases, climate change, deforestation, habitats, nuclear waste		y				
F/H	Using and generating electricity	Nuclear power	uranium, turbine, radioactive, fission, power station		y		y		
F/H	Using and generating electricity	National grid	step-up transformer, step-down transformer		y				y
F/H	Using and generating electricity	Transformers	step-up transformer, step-down transformer, induced		y				y
F/H	Using and generating electricity	Cost of electricity	appliance, power, kWh, energy saving		y	y			
F/H	Using and generating electricity	What is electricity	ac, dc, mains		y				y
F/H	Using and generating electricity	Cables and plugs	3-pin plug, 3 core cable, fuse, earthing				y		
F/H	Using and generating electricity	Electrical power	watt, fuse, appliance		y		y		
F/H	Using and generating electricity	Efficiency	Sankey diagram	y	y				
F/H	Static electricity	Static electricity	attract, repel, charge, electrostatic				y		
F/H	Electrical circuits	Current, voltage & resistance	ammeter, voltmeter, potential difference, charge, coulomb				y		
F/H	Electrical circuits	Series and parallel circuits	components						y
F/H	Electrical circuits	Ohms law	resistance, voltage, current				y		
F/H	Electrical circuits	Resistance	current, voltage, resistor, filament lamp, diode, LED, thermistor, LDR				y		y
F/H	Electricity and magnetism	Motors and generators	inducing, electricity and magnetism		y				y
F/H	Waves	Waves	electromagnetic, longitudinal, transverse, sound, light, amplitude, wavelength, frequency	y			y	y	
F/H	Waves	Wave equations	frequency, wavelength, amplitude, speed	y					
F/H	Waves	Electromagnetic spectrum	electromagnetic, transverse, light, microwave, radio wave, X-ray, gamma wave, radiation, UV, IR	y	y		y	y	
F/H	Waves	Lasers	light	y					
F/H	Waves	Ultrasound	echo, reflection, longitudinal, depth				y		
F/H	Earth	Seismic waves	crust, mantle, plate, earthquake, P wave, S wave	y					

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F/H	Optics	Reflection & refraction	angle of incidence, angle of reflection, ray diagram, refractive index, total internal reflection, optical fibre, endoscope, spectrum	y				y	
F/H	Optics	Diffraction	interference	y				y	
F/H	Optics	Lenses	real, virtual, concave, convex, magnification, ray diagram, power, focal length					y	
F/H	Optics	The eye and sight	focusing, retina, lens, long sight, short sight						
F/H	Motion and forces	Forces	friction, weight, Newton			y			
F/H	Motion and forces	Friction	force			y			
F/H	Motion and forces	Stopping distance	thinking time, braking time, safety			y			
F/H	Motion and forces	Motion graphs	distance-time graphs, speed, acceleration, velocity - time graph			y			
F/H	Motion and forces	Terminal velocity	air resistance, acceleration, balanced forces			y			
F/H	Motion and forces	Mass and weight	gravity			y			
F/H	Motion and forces	Momentum	velocity, collision, explosion			y			
H	Motion and forces	Change of momentum	car safety, speed			y			
F/H	Motion and forces	Collisions	elastic, inelastic						
F/H	Motion and forces	Circular motion	centripetal force		y				
F/H	Work, forces, energy and power	Energy transfer	potential, kinetic, chemical, GPE, KE, Sankey diagram			y			
F/H	Work, forces, energy and power	Work	force			y			
F/H	Work, forces, energy and power	Power	watts			y			
F/H	Work, forces, energy and power	GPE	gravitational potential energy			y			
F/H	Work, forces, energy and power	Kinetic energy	KE			y			
H	Work, forces, energy and power	Energy transfer calculations	conservation of energy			y			
F/H	Solar system	Solar system	galaxy, planet, star, comet		y				
F/H	Solar system	Life of a Star	black hole, red giant, white dwarf, fusion		y				
F/H	Solar system	Origin of the Universe	big bang, CMBR, red-shift, Doppler effect		y				
F/H	Atoms and radioactivity	Atomic structure	electron, proton, neutron, mass number				y		
F/H	Atoms and radioactivity	Nuclear radiation	ion, alpha, beta, gamma, ionising, penetrating power, background		y		y		
F/H	Atoms and radioactivity	Half-life	decay				y		
F/H	Atoms and radioactivity	Uses of radiation	danger, tracers, ionising, dating, C-14		y		y		
F/H	Atoms and radioactivity	Fission and fusion	uranium, chain reaction				y		