Learners Cloud
Education, Anywhere, Anytime

GCSE PHYSICS EXAMINATION BOARD COVERAGE

TIER	TOPIC	SUB HEADING	KEYWORDS	AQA Unit P1	AQA Unit P2	AQA Unit P3	Edexcel Unit P1	Edexcel Unit P2	Edexcel Unit P3	OCR B MODULE P1	OCR B MODULE P2	OCR B MODULE P3	OCR B MODULE P4	OCR B MODULE P5	OCR B MODULE P6	OCR A (21C) MODULE P1	OCR A (21C) MODULE P2	OCR A (21C) MODULE P3	OCR A (21C) MODULE P4	OCR A (21C) MODULE P5	OCR A (21C) MODULE P6	OCR A (21C) MODULE P7	EDAQUS (WJEC) Unit 1	EDAQUS (WJEC) Unit 2	EDAQUS (WJEC) Unit 3	CCEA Unit 1	CCEA Unit 2
F/H	Thermal energy	Temperature and heat	joules, degrees	P1.1					P3.5	P1a																	
F/H	Thermal energy	Kinetic theory	changes of state	P1.1					P3.5	P1a																	
F/H	Thermal energy	Conduction	energy transfer	P1.1						P1b													P1.4		P3.4		
F/H	Thermal energy	Convection	energy transfer	P1.1						P1b													P1.4		P3.4		
F/H	Thermal energy	Radiation	infra-red	P1.1						P1a, P1b, P1e							P2.1, P2.3						P1.4		P3.4		
F/H	Thermal energy	Rate of energy transfer	surface area	P1.1						P1a													P1.4, P1.5				
F/H	Thermal energy	Energy saving	insulator, U-value, double glazing	P1.1						P1a								P3.1					P1.4				
F/H	Thermal energy	Solar energy	solar heating, solar cell, solar panel	P1.1, P1.4							P2a												P1.1				
F/H	Thermal energy	Specific heat	specific heat capacity	P1.1						P1a																	
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	P1.4			P1.5	P2.6			P2a, P2b, P2d, P2c, P2e						P2.3	P3.1, P3.2, P3.3					P1.1, P1.3, P1.5			P1.2	
F/H	Using and generating electricity	Nuclear power	uranium, turbine, radioactive, fission, power station	P1.4	P2.6			P2.5, P2.6			P2e, P2c, P2e		P4h					P3.2			P6.2			P2.6		P1.4	
F/H	Using and generating electricity	National grid	step-up transformer, step-down transformer	P1.4			P1.5				P2b, P2d				P6g			P3.2					P1.2, P1.3				P2.2
F/H	Using and generating electricity	Transformers	step-up transformer, step-down transformer, induced	P1.4		P3.3	P1.5				P2d				P6g					P5.4			P1.2		P3.1		P2.2
F/H	Using and generating electricity	Cost of electricity	appliance, power, kWh, energy saving	P1.3	P2.4		P1.5				P2d	P3d						P3.1					P1.3				
F/H	Using and generating electricity	What is electricity	ac, dc, mains	P2.4			P1.5				P2b				P6f					P5.1, P5.4			P2.1				P2.2
F/H	Using and generating electricity	Cables and plugs	3-pin plug, 3 core cable, fuse, earthing		P2.4								P4c														P2.2
F/H	Using and generating electricity	Electrical power	watt, fuse, appliance	P1.3	P2.4		P1.5	P2.2			P2d		P4c					P3.1		P5.2			P1.2			P1.2	P2.2
F/H	Using and generating electricity	Efficiency	Sankey diagram	P1.2			P1.6			P1b	P2b							P3.1					P1.4			P1.2	
F/H	Static electricity	Static electricity	attract, repel, charge, electrostatic		P2.3			P2.1					P4a							P5.1							P2.2
F/H	Electrical circuits	Current, voltage & resistance	ammeter, voltmeter, potential difference, charge, coulomb		P2.3			P2.2					P4c							P5.2, P5.3				P2.1			P2.2
F/H	Electrical circuits	Series and parallel circuits	components		P2.3										P6a					P5.2, P5.3				P2.1			P2.2
F/H	Electrical circuits	Ohms law	resistance, voltage, current		P2.3			P2.2					P4c							P5.2, P5.3				P2.1			P2.2
F/H	Electrical circuits	Resistance	current, voltage, resistor, filament lamp, diode, LED, thermistor, LDR		P2.3, P2.4			P2.2					P4c		P6a, P6c					P5.2				P2.1			P2.2
F/H	Electricity and magnetism	Motors and generators	inducing, electricity and magnetism			P3.3	P1.5				P2b				P6e, P6f			P3.2		P5.4, P5.5					P3.1		P2.2
F/H	Waves	Waves	electromagnetic, longitudinal, transverse, sound, light, amplitude, wavelength, frequency	P1.5			P1.1			P1c			P4d	P5f		P1.2							P1.5		P3.2		P2.1
F/H	Waves	Wave equations	frequency, wavelength, amplitude, speed	P1.5			P1.1			P1c						P1.2							P1.5				P2.1
F/H	Waves	Electromagnetic spectrum	electromagnetic, transverse, light, microwave, radio wave, X-ray, gamma wave, radiation, UV, IR	P1.5		P3.1	P1.2	P3.2		P1c, P1e, P1f, P1g, P1h	P2e		P4g	P5e			P2.1						P1.5, P1.6				P2.1
F/H	Waves	Lasers	light			P3.1			P3.1	P1d																	
F/H	Waves	Ultrasound	echo, reflection, longitudinal, depth	P1.5			P1.4						P4d														P2.1
F/H	Earth	Seismic waves	crust, mantle, plate, earthquake, P wave, S wave				P1.4			P1h						P1.2									P3.2		P2.3
F/H	Optics	Reflection & refraction	angle of incidence, angle of reflection, ray diagram, refractive index, total internal reflection, optical fibre, endoscope, spectrum	P1.5		P3.1	P1.1		P3.1	P1c				P5f, P5g			P2.4					P7.2			P3.2		P2.1
F/H	Optics	Diffraction	interference	P1.5						P1c				P5e, P5f								P7.2					

F/H	Optics	Lenses	real, virtual, concave, convex, magnification, ray diagram, power, focal length			P3.1	P1.1	P3.1						P5h								P7.2					P2.1
F/H	Optics	The eye and sight	focusing, retina, lens, long sight, short sight			P3.1		P3.1																			
F/H	Motion and forces	Forces	friction, weight, Newton		P2.1			P2.3				P3c							P4.2					P2.3		P1.1	
F/H	Motion and forces	Friction	force		P2.1			P2.4				P3g							P4.2							P1.1	
F/H	Motion and forces	Stopping distance	thinking time, braking time, safety		P2.1			P2.4				P3c												P2.4			
F/H	Motion and forces	Motion graphs	distance-time graphs, speed, acceleration, velocity - time graph		P2.1			P2.3				P3a, P3b							P4.1					P2.2		P1.1	
F/H	Motion and forces	Terminal velocity	air resistance, acceleration, balanced forces		P2.1			P2.3				P3g												P2.3			
F/H	Motion and forces	Mass and weight	gravity		P2.1			P2.3				P3d							P4.4					P2.3		P1.1	
F/H	Motion and forces	Momentum	velocity, collision, explosion		P2.2			P2.4				P3f							P4.3						P3.3	P1.1	
H	Motion and forces	Change of momentum	car safety, speed					P2.4				P3f							P4.3						P3.3	P1.1	
F/H	Motion and forces	Collisions	elastic, inelastic		P2.1				P3.4																		
F/H	Motion and forces	Circular motion	centripetal force			P3.2			P3.4		P2f															P1.1	
F/H	Work, forces, energy and power	Energy transfer	potential, kinetic, chemical, GPE, KE, Sankey diagram	P1.2			P1.6					P3h						P3.1					P1.4			P1.2	
F/H	Work, forces, energy and power	Work	force		P2.2			P2.4				P3d							P4.4					P2.4		P1.2	
F/H	Work, forces, energy and power	Power	watts		P2.2			P2.4				P3d														P1.2	
F/H	Work, forces, energy and power	GPE	gravitational potential energy		P2.2			P2.4				P3h							P4.4					P2.4		P1.2	
F/H	Work, forces, energy and power	Kinetic energy	KE		P2.2			P2.4				P3e							P4.4					P2.4	P3.3	P1.2	
H	Work, forces, energy and power	Energy transfer calculations	conservation of energy					P2.4				P3h							P4.4						P3.3		
F/H	Solar system	Solar system	galaxy, planet, star, comet				P1.3				P2f, P2g					P1.1							P1.7				P2.3
F/H	Solar system	Life of a Star	black hole, red giant, white dwarf, fusion		P2.6		P1.3				P2f, P2h					P1.1						P7.3			P3.5		P2.3
F/H	Solar system	Origin of the Universe	big bang, CMBR, red-shift, Doppler effect	P1.5			P1.3				P2h					P1.1						P7.3, P7.4	P1.7		P3.5		P2.3
F/H	Atoms and radioactivity	Atomic structure	electron, proton, neutron, mass number		P2.5			P2.1, P2.5	P3.3				P4f								P6.1			P2.6		P1.4	
F/H	Atoms and radioactivity	Nuclear radiation	ion, alpha, beta, gamma, ionising, penetrating power, background		P2.5		P1.2	P2.5, P2.6	P3.3		P2e		P4g, P4e, P4f								P6.1		P1.6	P2.5		P1.4	
F/H	Atoms and radioactivity	Half-life	decay		P2.5			P2.6					P4e								P6.1, P6.2			P2.5		P1.4	
F/H	Atoms and radioactivity	Uses of radiation	danger, tracers, ionising,dating, C-14		P2.5	P3.1		P2.6	P3.2, P3.3, P3.4		P2e		P4f, P4g								P6.2			P2.5		P1.4	
F/H	Atoms and radioactivity	Fission and fusion	uranium, chain reaction		P2.6			P2.5					P4h								P6.2			P2.6	P3.5	P1.4	