

AQA GCSE Physics (Higher) - Specification Checklist

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PPQs = Past paper questions

Paper 1H

4.1 Energy

4.1.1 - Energy changes in a system, and the ways energy is stored before and after such changes

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.1.1.1	Energy stores and systems				
4.1.1.2	Changes in energy				
4.1.1.3	Energy changes in systems				
4.1.1.4	Power				

4.1.2 - Conservation and dissipation of energy

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.1.2.1	Energy transfers in a system				
4.1.2.2	Efficiency				

4.1.3 - National and global energy resources

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.1.3	National and global energy resources				

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4.2 Electricity

4.2.1 - Current, potential difference and resistance

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.2.1.1	Standard circuit diagram symbols				
4.2.1.2	Electrical charge and current				
4.2.1.3	Current, resistance and potential difference				
4.2.1.4	Resistors				

4.2.2 - Series and parallel circuits

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.2.2	Series and parallel circuits				

4.2.3 - Domestic uses and safety

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.2.3.1	Direct and alternating potential difference				
4.2.3.2	Mains electricity				

4.2.4 - Energy transfers

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.2.4.1	Power				
4.2.4.2	Energy transfers in everyday appliances				
4.2.4.3	The National Grid				

4.2.5 - Static electricity

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.2.5.1	Static charge				
4.2.5.2	Electric fields				

4.3 Particle model of matter

4.3.1 - Changes of state and the particle model

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.3.1.1	Density of materials				
4.3.1.2	Changes of state				

4.3.2 - Internal energy and energy transfers

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.3.2.1	Internal energy				
4.3.2.2	Temperature changes in a system and specific heat capacity				
4.3.2.3	Changes of state and specific latent heat				

4.3.3 - Particle model and pressure

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.3.3.1	Particle motion in gases				
4.3.3.2	Pressure in gases				
4.3.3.3	Increasing the pressure of a gas				

4.4 Atomic structure

4.4.1 - Atoms and isotopes

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.4.1.1	The structure of an atom				
4.4.1.2	Mass number, atomic number and isotopes				
4.4.1.3	The development of the model of the atom (common content with chemistry)				

4.4.2 - Atoms and nuclear radiation

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.4.2.1	Radioactive decay and nuclear radiation				
4.4.2.2	Nuclear equations				
4.4.2.3	Half-lives and the random nature of radioactive decay				
4.4.2.4	Radioactive contamination				

4.4.3 - Hazards and uses of radioactive emissions and of background radiation

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.4.3.1	Background radiation				
4.4.3.2	Different half-lives of radioactive isotopes				
4.4.3.3	Uses of nuclear radiation				

4.4.4 - Nuclear fission and fusion

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.4.4.1	Nuclear fission				
4.4.4.2	Nuclear fusion				

Paper 2H

4.5 Forces

4.5.1 - Forces and their interactions

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.1.1	Scalar and vector quantities				
4.5.1.2	Contact and non-contact forces				
4.5.1.3	Gravity				
4.5.1.4	Resultant forces				

4.5.2 - Work done and energy transfer

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.2	Work done and energy transfer				

4.5.3 - Forces and elasticity

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.3	Forces and elasticity				

4.5.4 - Moments, levers and gears

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.4	Moments, levers and gears				

4.5.5 - Pressure and pressure differences in fluids

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.5.1.1	Pressure in a fluid 1				
4.5.5.1.2	Pressure in a fluid 2				
4.5.5.2	Atmospheric pressure				

4.5.6 - Forces and motion: 4.5.6.1 - Describing motion along a line

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.6.1.1	Distance and displacement				
4.5.6.1.2	Speed				
4.5.6.1.3	Velocity				
4.5.6.1.4	The distance–time relationship				
4.5.6.1.5	Acceleration				

4.5.6 - Forces and motion: 4.5.6.2 - Forces, accelerations and Newton's Laws of motion

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.6.2.1	Newton's First Law				
4.5.6.2.2	Newton's Second Law				
4.5.6.2.3	Newton's Third Law				
4.5.6.3.1	Stopping distance				
4.5.6.3.2	Reaction time				

4.5.6.3.3	Factors affecting braking distance 1				
4.5.6.3.4	Factors affecting braking distance 2				

4.5.7 - Momentum

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.7.1	Momentum is a property of moving objects				
4.5.7.2	Conservation of momentum				
4.5.7.3	Changes in momentum				

4.6 Waves

4.6.1 - Waves in air, fluids and solids

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.6.1.1	Transverse and longitudinal waves				
4.6.1.2	Properties of waves				
4.6.1.3	Reflection of waves				
4.6.1.4	Sound waves				
4.6.1.5	Waves for detection and exploration				

4.6.2 - Electromagnetic waves

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.6.2.1	Types of electromagnetic waves				
4.6.2.2	Properties of electromagnetic waves 1				

4.6.2.3	Properties of electromagnetic waves 2				
4.6.2.4	Uses and applications of electromagnetic waves				
4.6.2.5	Lenses				
4.6.2.6	Visible light				

4.6.3 - Black body radiation

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.6.3.1	Emission and absorption of infrared radiation				
4.6.3.2	Perfect black bodies and radiation				

4.7 Magnetism and electromagnetism

4.7.1 - Permanent and induced magnetism, magnetic forces and fields

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.7.1.1	Poles of a magnet				
4.7.1.2	Magnetic fields				

4.7.2 - The motor effect

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.7.2.1	Electromagnetism				
4.7.2.2	Fleming's left-hand rule				
4.7.2.3	Electric motors				
4.7.2.4	Loudspeakers				

4.7.3 - Induced potential, transformers and the National Grid

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.7.3.1	Induced potential				
4.7.3.2	Uses of the generator effect				
4.7.3.3	Microphones				
4.7.3.4	Transformers				

4.8 Space physics

4.8.1 - Solar system; stability of orbital motions; satellites

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.8.1.1	Our solar system				
4.8.1.2	The life cycle of a star				
4.8.1.3	Orbital motion, natural and artificial satellites				

4.8.2 - Red-shift

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.8.2	Red-shift				