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GCSE Physics Revision Checklist - Paper 1

Tick each item as you revise. Use the confidence boxes to spot what is secure and what needs another pass.

Energy

Done	Revision point	Confidence
[ ]	Describe energy stores and pathways for energy transfer.	[ ] [ ] [ ]
[ ]	Calculate energy changes in kinetic, gravitational and elastic stores.	[ ] [ ] [ ]
[ ]	Calculate power and explain the difference between energy and power.	[ ] [ ] [ ]
[ ]	Calculate efficiency and identify ways to reduce unwanted energy transfers.	[ ] [ ] [ ]
[ ]	Compare renewable and non-renewable energy resources and their impacts.	[ ] [ ] [ ]

Electricity

Done	Revision point	Confidence
[ ]	Use current, potential difference and resistance relationships in circuits.	[ ] [ ] [ ]
[ ]	Compare series and parallel circuits and calculate relevant quantities.	[ ] [ ] [ ]
[ ]	Explain domestic electricity, plugs, mains supply and electrical safety.	[ ] [ ] [ ]
[ ]	Calculate electrical power and energy transferred by appliances.	[ ] [ ] [ ]
[ ]	Explain how the National Grid transfers electrical energy efficiently.	[ ] [ ] [ ]

Confidence key: [ ] Needs work [ ] Nearly there [ ] Exam ready

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GCSE Physics Revision Checklist - Paper 1 continued

Tick each item as you revise. Use the confidence boxes to spot what is secure and what needs another pass.

Particle model of matter

Done	Revision point	Confidence
[ ]	Calculate density and use appropriate units.	[ ] [ ] [ ]
[ ]	Explain changes of state using the particle model.	[ ] [ ] [ ]
[ ]	Describe internal energy and heating.	[ ] [ ] [ ]
[ ]	Use the specific heat capacity equation.	[ ] [ ] [ ]
[ ]	Explain specific latent heat and changes of state.	[ ] [ ] [ ]
[ ]	Relate gas pressure and temperature to particle motion.	[ ] [ ] [ ]

Atomic structure

Done	Revision point	Confidence
[ ]	Describe atoms, isotopes and the development of the atomic model.	[ ] [ ] [ ]
[ ]	Describe alpha, beta and gamma radiation and their properties.	[ ] [ ] [ ]
[ ]	Explain radioactive decay, activity and half-life.	[ ] [ ] [ ]
[ ]	Evaluate uses and hazards of ionising radiation.	[ ] [ ] [ ]
[ ]	Explain nuclear fission and nuclear fusion.	[ ] [ ] [ ]

Paper 1 check: revisit any row that is not yet 'Exam ready' before moving on.

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GCSE Physics Revision Checklist - Paper 2

Tick each item as you revise. Use the confidence boxes to spot what is secure and what needs another pass.

Forces and waves

Done	Revision point	Confidence
[ ]	Distinguish scalar and vector quantities and represent forces.	[ ] [ ] [ ]
[ ]	Apply work done, elasticity, moments and pressure relationships.	[ ] [ ] [ ]
[ ]	Interpret motion graphs and calculate speed and acceleration.	[ ] [ ] [ ]
[ ]	Apply Newton's laws, stopping distances and momentum.	[ ] [ ] [ ]
[ ]	Describe transverse and longitudinal waves and calculate wave speed.	[ ] [ ] [ ]
[ ]	Explain reflection, refraction and the electromagnetic spectrum.	[ ] [ ] [ ]

Magnetism, electromagnetism and space physics

Done	Revision point	Confidence
[ ]	Describe permanent and induced magnetism and magnetic fields.	[ ] [ ] [ ]
[ ]	Explain electromagnets and the motor effect.	[ ] [ ] [ ]
[ ]	Explain generators, transformers and electromagnetic induction.	[ ] [ ] [ ]
[ ]	Describe the Solar System and orbital motion.	[ ] [ ] [ ]
[ ]	Describe the life cycle of stars.	[ ] [ ] [ ]
[ ]	Explain red-shift and evidence for an expanding universe.	[ ] [ ] [ ]

Final check: focus your next revision session on every item marked 'Needs work' or 'Nearly there'.