

## AQA Combined Science and Physics revision videos: Physics paper 2

Topic	Subtopic	Video link
Forces	Scalar and vector quantities	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/scalar-and-vector-quantities/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/scalar-and-vector-quantities/</a>
	Contact and non-contact forces	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/contact-and-non-contact-forces/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/contact-and-non-contact-forces/</a>
	Gravity and weight	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/gravity-and-weight/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/gravity-and-weight/</a>
	Resultant forces	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/resultant-forces/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/resultant-forces/</a>
	Vector diagrams	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/resultant-forces/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/resultant-forces/</a>
	Resolving forces	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/resolving-forces/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/resolving-forces/</a>
	Work done and energy transfer	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/work-done-and-energy-transfer/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/work-done-and-energy-transfer/</a>
	Forces and elasticity	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/forces-and-elasticity/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/forces-and-elasticity/</a>
	Required practical: Stretching a spring	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/required-practical-6-stretching-a-spring/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/required-practical-6-stretching-a-spring/</a>
	Moments (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/moments-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/moments-triple/</a>
	Balanced moments (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/balanced-moments-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/balanced-moments-triple/</a>
	Levers and gears (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/levers-and-gears-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/levers-and-gears-triple/</a>
	Pressure in fluids (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/pressure-in-fluids-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/pressure-in-fluids-triple/</a>
	Floating or sinking (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/floating-or-sinking-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/floating-or-sinking-triple/</a>
	Speed	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/speed/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/speed/</a>
	Velocity	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/velocity/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/velocity/</a>
	Distance time graphs	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/distance-time-graphs/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/distance-time-graphs/</a>
	Acceleration	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/acceleration/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/acceleration/</a>
	Acceleration 2	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/acceleration-2/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/acceleration-2/</a>
	Newton's 1 <sup>st</sup> law	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/newtons-first-law-of-motion/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/newtons-first-law-of-motion/</a>
Newton's 2 <sup>nd</sup> law	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/newtons-second-law-of-motion/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/newtons-second-law-of-motion/</a>	
Newton's 3 <sup>rd</sup> law	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/newtons-third-law-of-motion/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/newtons-third-law-of-motion/</a>	
Forces acting on a skydiver (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/forces-acting-on-a-skydiver-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/forces-acting-on-a-skydiver-triple/</a>	

	Required Practical: Acceleration	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/required-practical-7-acceleration/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/required-practical-7-acceleration/</a>
	Stopping distance	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/vehicle-stopping-distance/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/vehicle-stopping-distance/</a>
	Forces and braking	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/force-and-braking/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/force-and-braking/</a>
	Momentum	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/momentum/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/momentum/</a>
	Conservation of momentum (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/conservation-of-momentum-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/conservation-of-momentum-triple/</a>
	Change in momentum (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/change-in-momentum-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/forces/change-in-momentum-triple/</a>
Waves	Transverse and longitudinal waves	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/transverse-and-longitudinal-waves/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/transverse-and-longitudinal-waves/</a>
	Properties of waves	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/properties-of-waves/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/properties-of-waves/</a>
	The wave equation	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/the-wave-equation/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/the-wave-equation/</a>
	Required practical: Ripple Tank	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/required-practical-8-ripple-tank/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/required-practical-8-ripple-tank/</a>
	Required practical: Waves in a solid	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/required-practical-8-waves-in-a-solid/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/required-practical-8-waves-in-a-solid/</a>
	Reflection of waves (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/reflection-of-waves-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/reflection-of-waves-triple/</a>
	Required practical: Reflections and refraction (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/required-practical-9-reflection-and-refraction-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/required-practical-9-reflection-and-refraction-triple/</a>
	Sound waves (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/sound-waves-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/sound-waves-triple/</a>
	Ultrasound (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/ultrasound-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/ultrasound-triple/</a>
	Seismic waves (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/seismic-waves-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/seismic-waves-triple/</a>
	Electromagnetic waves	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/electromagnetic-waves/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/electromagnetic-waves/</a>
	Refraction of waves	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/refraction-of-waves/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/refraction-of-waves/</a>
	Required practical: Infra-red	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/required-practical-10-infrared/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/required-practical-10-infrared/</a>
	Properties of waves 2	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/properties-of-waves-2-2/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/properties-of-waves-2-2/</a>
	Uses of EM waves	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/uses-of-em-waves/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/uses-of-em-waves/</a>
	Convex lenses (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/convex-lenses-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/convex-lenses-triple/</a>
	Magnifying glasses (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/magnifying-glasses-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/magnifying-glasses-triple/</a>
	Concave lenses (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/concave-lenses-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/concave-lenses-triple/</a>
	Visible light (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/visible-light-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/visible-light-triple/</a>
	Black body radiation (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/black-body-radiation-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/waves/black-body-radiation-triple/</a>
	Permanent and induced magnets	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/permanent-and-induced-magnets/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/permanent-and-induced-magnets/</a>

Magnetism and electromagnetism	Magnetic fields	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/magnetic-fields/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/magnetic-fields/</a>
	Electromagnets	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/electromagnets/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/electromagnets/</a>
	Electromagnetic devices (Physics only)	
	The motor effect	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-motor-effect/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-motor-effect/</a>
	The electric motor	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-electric-motor/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-electric-motor/</a>
	Loudspeakers and headphones (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/loudspeakers-and-headphones-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/loudspeakers-and-headphones-triple/</a>
	The generator effect (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-generator-effect-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-generator-effect-triple/</a>
	The alternator and dynamo (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-alternator-and-dynamo-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-alternator-and-dynamo-triple/</a>
	The microphone (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-microphone-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/the-microphone-triple/</a>
	Transformers (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/transformers-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/transformers-triple/</a>
	Transformer calculations (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/transformer-calculations-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/magnetism/transformer-calculations-triple/</a>
Space physics (Physics only)	The solar system (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/space-physics/the-solar-system-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/space-physics/the-solar-system-triple/</a>
	Lifecycle of stars (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/space-physics/lifecycle-of-stars-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/space-physics/lifecycle-of-stars-triple/</a>
	Orbital motion (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/space-physics/orbital-motion-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/space-physics/orbital-motion-triple/</a>
	Red-shift (Physics only)	<a href="https://www.freesciencelessons.co.uk/gcse-physics-paper-2/space-physics/red-shift-triple/">https://www.freesciencelessons.co.uk/gcse-physics-paper-2/space-physics/red-shift-triple/</a>