

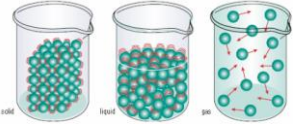
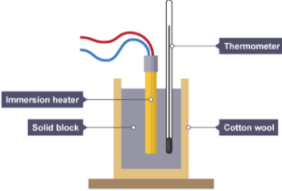

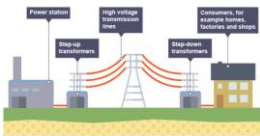

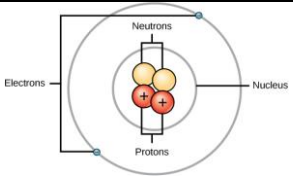

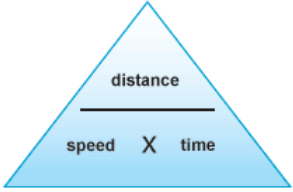
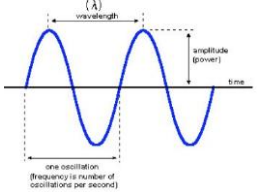
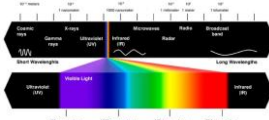
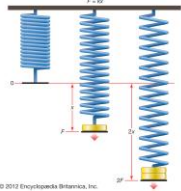
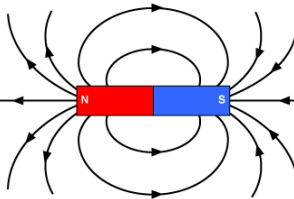
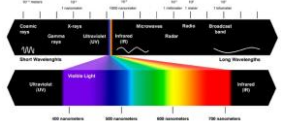
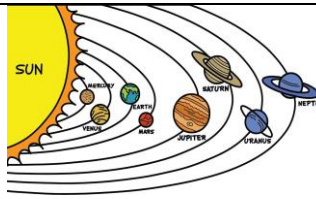
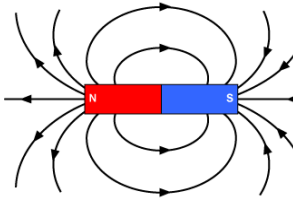



GCSE Physics Curriculum Map 2024-2025

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9	 <p>Awesome Physics. Maths skills.</p> <p>Energy – Part 1. Energy stores Energy stores and transfers Calculating energy Efficiency <u>Transferring energy Part 1.</u> Energy changes in a system Work and power</p>	 <p>Electricity – Part 1. <u>Introduction to static and current electricity.</u> Current, potential difference and resistance. Circuit symbols Electric current and charge Ohm's Law Required practical 3 Ohmic and non ohmic conductors Required practical 4</p>	 <p>Particle Model of Matter. <u>Changes of state and the particle model.</u> Density Required practical 5 <u>Internal energy and energy transfers.</u> Changes of state Specific latent heat Internal energy</p>	 <p>Transferring energy Part 2. Specific heat capacity Required practical 1 Heat transfer Insulation Required practical 2</p>	 <p>Energy – Part 2. <u>National and global energy resources.</u> Renewable and non-renewable resources Environmental impact of using different resources</p> <p>Electricity – Part 2. Recap electricity part 1 Series and parallel circuits</p>	 <p>Electricity – Part 2. <u>Circuits.</u> AC and DC Mains electricity Electrical power part 1 Electrical power part 2 National Grid</p>
Year 10	 <p>Review of electricity part 2. <u>Static electricity.</u> Static charge Electric fields</p> <p>Review of particle model of matter. <u>Particle model and pressure.</u> Particle motion in gases Pressure in fluids Atmospheric pressure</p>	 <p>Atomic Structure. <u>Atoms and isotopes.</u> Atomic structure History of the atom Nuclear model of the atom</p> <p><u>Atoms and radiation.</u> Activity Properties of radiation Nuclear equations <u>Atoms and radiation.</u> The randomness of radioactivity Half life Safe use of radiation</p>	 <p>Hazards and uses of radiation. Background radiation Uses and dangers of radiation</p> <p><u>Fission and fusion.</u> Nuclear fission Nuclear fusion</p>	 <p>Forces Part 1. <u>Forces and their interactions.</u> Naming forces Scalars and vectors Resultant forces and free body diagrams</p> <p><u>Forces and motion 1.</u> Distance and displacement Speed Acceleration</p>	 <p>Forces motion 2. Motion graphs Stopping distance Reaction time Factors affecting braking distance</p> <p>Waves Part 1. <u>Waves in air, fluids and solids.</u> Properties of transverse and longitudinal waves Wave equation Required practical 8</p>	 <p>Wave behaviour. Reflection Refraction Required practical 9</p> <p><u>Electromagnetic spectrum.</u> Properties of EM waves Uses and dangers of EM waves</p>

GCSE Physics Curriculum Map 2024-2025

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11	 <p>Forces Part 2. <u>Forces and their interactions.</u> Recap of work done, scalars, vectors and resultant forces Resolving forces Hooke's Law and elasticity Moments</p>	 <p>Forces Part 2. Newton's Laws Momentum Safety features Terminal velocity</p> <p>Magnetism Part 1. <u>Magnetism and electromagnetism</u> Permanent and induced magnets Electromagnets <u>The Motor Effect</u> Fleming's left hand rule Electric motors</p>	 <p>Waves Part 2 Lenses Magnification Visible Light <u>Blackbody Radiation</u> Infrared radiation and temperature Required practical 10 Perfect black bodies</p>	 <p>Space Physics Life Cycle of a star The solar system and orbits Red-shift and the big bang Preparation for GCSE</p>	 <p>Magnetism Part 2. <u>Induced Potential</u> Generator effect Generators Loudspeakers & Microphones Transformers</p> <p>GCSE Revision</p> <p>Retrieval practice and examination preparation</p>	 <p>GCSE Examinations</p>