GCSE Physics Curriculum Map 2023-2024

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9	Awesome Physics. Maths skills. Energy – Part 1. Energy stores Energy stores and transfers Calculating energy Efficiency Transferring energy Part 1. Energy changes in a system Work and power	Electricity – Part 1. Introduction to static and current electricity. 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	Particle Model of Matter. Changes of state and the particle model. Density Required practical 5 Changes of state Internal energy and energy transfers. Internal energy Specific heat capacity	Internal energy and energy transfers. Changes of state Density Specific latent heat Particle model and pressure. Particle motion in gases Fluid pressure Atmospheric pressure	.Electricity – Part 2. Circuits. Series and parallel circuits AC and DC Mains electricity Electrical power and energy transfers National Grid Static electricity. Static charge Electric fields	Energy – Part 2. Transferring Heat. Specific heat capacity Required practical 1 Heat transfer Insulation Required practical 2 National and global energy resources. Renewable and non- renewable resources Environmental impact of using different resources.
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Atomic Structure. Atoms and isotopes. Atomic structure History of the atom The nuclear model of the atom Atoms and radiation. Activity Properties of radiation Nuclear equations	Atoms and radiation. The randomness of radioactivity Half life Safe use of radiation Hazards and uses of radiation. Background radiation Uses and dangers of radiation Fission and fusion. Nuclear fission Nuclear fusion	STOPPING DISTANCES	distance Speed X time Forces and braking. Stopping distance Reaction time Factors affecting braking distance	wavesing on a contraction of the	Sound waves. Sound waves and how we hear Speed of sound measurements Electromagnetic spectrum. Properties of EM waves Uses and dangers of EM waves

GCSE Physics Curriculum Map 2023-2024

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11	Forces Part 2. Forces and their interactions. Recap of scalars, vectors and resultant forces Resolving forces Moments Pressure and pressure differences in fluids. Pressure Fluid pressure Forces and motion 2. Equations of motion Terminal velocity Newtons Laws	Forces Part 2. Forces and braking. Stopping distances Momentum Safety features Magnetism Part 1. Magnetism and electromagnetism Permanent and induced magnets Electromagnets The Motor Effect Flemings left hand rule Electric motors	Waves Part 2 Lenses Magnification Visible Light Blackbody Radiation Infrared radiation and temperature Required practical 10 Perfect black bodies	Space Physics Life Cycle of a star The solar system and orbits Red-shift and the big bang Preparation for GCSE	Magnetism Part 2. Induced Potential Generator effect Generators Loudspeakers & Microphones Transformers GCSE Revision Retrieval practice and examination preparation	Realising potential GCSE Examinations

Slight changes to the above structure for this year:

- ❖ Year 10 have started with a Unit 1b − energy resources.
- ❖ Year 11 will complete Unit 4 atomic structure at the start of the year.