Curriculum Map: Physics GCSE 3 year delivery.

Y9 Content and Topics	**Physics P1** **Conservation and Dissipation of energy** Changes in energy stores Conservation of energy Energy and Work GPE KE and elastic energy Energy dissipation Energy and efficiency Electrical appliances Energy and power	**Physics P2** **Energy transfer by heating** Energy transfer by conduction *Infrared radiation* *More about infrared radiation* Specific heat capacity Heating and insulating buildings	**Physics P3** **Energy resources** Energy demands Energy from wind and water Power from the Sun and the Earth Energy and environment Big energy issues	**Physics P4** **Electric circuits** *Electrical charges and fields* Current and charge Potential difference and resistance Component characteristics Series circuits Parallel circuits	**Physics P5 Electricity in the home** Alternating current Cable and plugs Electrical power and PD Electrical currents and energy transfer Appliances and efficiency	**Physics P6 Molecules and matter** Density States of matter Changes of state Internal energy Specific latent heat Gas pressure and temperature *Gas pressure and volume*
Y9 Skills		*Investigating thermal insulation required practical* Determining Specific heat capacity required practical		Investigating resistance required practical Investigating electrical components required practical		Calculating density required practical
Y9Assessments/PPEs		Tracking Assessment		Tracking Assessment		Tracking Assessment End of Year Exam
Y10 Content and Topics	**Physics P7** **Radioactivity** Atoms and radiation The discovery of the nucleus Changes in the nucleus	**Physics P8** **Forces in balance** Vector and scalars Forces between objects Resultant forces *Moments at work*	**Physics P9** **Motion** Speed and distance-time graphs Forces between objects	**Physics P10** **Force and Motion** Forces and acceleration Weight and terminal velocity Force and braking	**Physics P12** **Wave properties** Nature of waves The properties of waves Reflection and refraction	**Physics P13** **Electromagnetic waves** The electromagnetic spectrum Light, infrared, microwaves & radio

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	More about alpha, beta, and gamma Activity and half-life *Nuclear radiation in medicine* *Nuclear fission* *Nuclear fusion* *Nuclear issues*	*More about levers and gears* Centre of mass *Moments and equilibrium* The parallelogram of forces Resolution of forces	More about velocity-time graphs Analysing motion graphs	Momentum *Using conservation of momentum* *Impact forces* *Safety first* Forces and elasticity ***Physics P11*** ***Forces and Pressure*** *Pressure and surfaces* *Pressure in a liquid at rest* *Atmospheric pressure* *Upthrust and flotation*	More about waves *Sound waves* *The use of ultrasound* *Seismic waves*	Communications Ultraviolet waves, x-rays & gamma X-rays in medicine
Y10 Skills				Investigating the relationship between force and acceleration required practical Investigating the relationship between force and extension for a spring required practical	Investigating plane waves in a ripple tank and waves in a solid required practical	Investigating infrared radiation required practical
Y10 Assessments/PPEs		Tracking Assessment		Tracking Assessment		Tracking Assessment End of Year Exam
Y11 Content and Topics	**Physics P15** **Electromagnetism** Magnetic fields Magnetic fields of electric currents	Revision ***Physics P16 Space*** *Formation of the solar system*	Revision	Revision	Exam Season	

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	Electromagnets in devices The motor effect *The generator effect* *The AC generator* *Transformers* *Transformers in action* ***P14 Light*** *Reflection of light* *Refraction of light* *Light and colour* *Lenses* *Using lenses*	*The life history of a star* *Planets, satellites and orbits* *The expanding universe* *The beginning and future of the universe*				
Y11 Skills	*Investigating reflection and refraction of light required practical*					
Y11 Assessments/PPEs		Tracking Assessment GCSE Mock 1		Tracking Assessment GCSE Mock 2		