Curriculum Summary Document

Year 10 - Physics – Science

Module/Unit of Learning	Taught During	What will students learn?	How does this help to build a broad and strong foundation?	Links to other subjects
AQA GCSE Atomic structure (Physics) and transferring energy	**HT2**	Students will study atomic structure, isotopes, radioactive decay and nuclear radiation, alongside energy stores, energy transfers, conservation of energy and energy dissipation.	Develops understanding of matter, radiation and energy in the physical world. Builds the scientific knowledge needed to explain nuclear processes, energy efficiency and the generation and transfer of energy.	Maths (equations and calculations), Geography (energy resources), History (development of atomic theory and nuclear science).
AQA GCSE Particle Model of Matter	**HT2**	Students will study the particle arrangement and movement in solids, liquids and gases, changes of state, internal energy, specific heat capacity, latent heat and gas pressure.	Builds understanding of the behaviour and properties of matter. Provides the foundation for explaining thermal energy, changes of state and the behaviour of materials in different conditions.	Maths (calculations and graphs), Geography (weather and atmospheric pressure), Design Technology (materials and their properties).
AQA GCSE Forces	**HT5**	Students will study different types of forces, resultant forces, contact and non-contact forces, motion, speed, acceleration, Newton's laws, momentum, stopping distances and moments.	Builds understanding of how objects move and interact. Develops mathematical problem-solving and provides the foundation for understanding motion, mechanics, transport safety and engineering principles.	Maths (equations, graphs and proportionality), PE (movement and forces), Design Technology (structures and engineering).