



Curriculum Map- Science

Below is a curriculum map, showing what is taught at each stage of the year.

	Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
Year 7 new 2023	Introduction to Science Energy - Energy stores and transfers Particle Model - States of matter and changes of state Interdependence - Feeding relationships, classification and adaptation Forces 1 - Contact and non-contact forces. Newtons 1st & 3rd Law		Elements and the Periodic Table - Elements and the properties and arrangement in the periodic table. Organisation 1 - Tissues, organs and systems Electricity & Magnetism - Charge, current and circuit diagrams Compounds - How elements combine to form new compounds in a chemical reaction.		The Cell - Cells, organelles and specialisation Mixtures - Separation techniques Reproduction - The reproductive system Space - The solar system, days, seasons and eclipses	
Year 8 old 2022	Bioenergetics- Respiration in cells Current - Current, series and parallel circuits Atomic structure - The structure of the atom and introduction to bonding and ions Transport - How the reactants & products of respiration are transported		Particle Theory - Density, Pressure & Energy transfers Metals & Ions - Ionic bonding and chemical equations Waves - Properties of waves. Light, colour & sound		Health & Disease - Communicable & non-communicable disease Speed -Resultant forces, motion and acceleration Biodiversity - Biodiversity and its importance in ecosystems	
Year 9	Voltage - Energy transfer Reactivity Series - Reactivity Series - Reactivity applications Bonding- Structure and Forperties of substances bonding. Applied Forces - Newton Moments and Hooke's Laguer Genetics - Inheritance, see natural selection	Properties - How relates to their s 2nd Law, Pressure, w	and calculating masses Generating electricity- energy resources	y - Conservation of mass in reactions Electricity generation & cle of stars, The Big Bang	Cell Biology- Microscopy, condivision and transport Atomic structure & the periodic development of the periodic for the nuclear model of the of group 1,7 & 0 elements.	riodic table-The ic table and evidence

Year 10	Energy - Calculating energy stores & transfers. Energy resources Organisation - Digestive system & enzymes, disease and cancer	Bonding, structure & properties of matter - Chemical bonding and properties of different materials Electricity - Charge, current, resistance, potential difference and domestic electricity supply	Infection & response - Pathogens, immunity and drug development Quantitative chemistry - Chemical measurements, moles and concentrations	Energy changes - Reaction profiles and bond energies Bioenergetics - Factors affecting photosynthesis and respiration Particle model of matter - Changes of state, specific heat capacity and specific latent heat	Chemical changes - The reactivity series and electrolysis and neutralisation reactions Atomic structure - Nuclear radiation and radioactive decay	Homeostasis & response - Nervous and hormonal control
Year 11	The rate & extent of chemical change - Collision theory, catalysts and reversible reactions Forces - Calculating resultant forces and acceleration. Momentum	Inheritance, variation & evolution - Inheritance, genetic engineering & Organic chemistry - Petrochemicals and their properties Chemical analysis - Purity, formulations, chromatography and gas tests	Waves - Properties of waves, the electromagnetic spectrum and its applications Ecology - Biodiversity, interdependence and human impact	Chemistry of the atmosphere - The changing atmosphere, greenhouse effect and atmospheric pollutants Using resources - Sustainable development, water treatment and life cycle assessments Magnetism & Electromagnetism - Magnetic fields and the motor effect	*Space - The Solar System, Stars, The Big Bang (Triple Science Only) Revision and preparation for exams	Exam season