Curriculum Design 2025-26

Science							
		Term1		Term2		Term3	
		The units below will be taught across the year. The order of teaching will be different for each class to allow lessons to be delivered to all classes simultaneously.					
7	Theme	Forensic Science	Fireworks	Living Organisms	Variation	Electricity & Magnetism	Alien
	Concept						
	Skills Knowledge	Acids and alkalis Simple chemical reactions The particle theory of matter Risk management How do scientists collect and use evidence? How are new hypotheses created and tested?	Signs of a chemical reaction Burning metals in air & oxygen Composition of air Evaluating risks in practical tasks.	Using a microscope Biological drawings Animal cells Plant cells Diffusion Reproduction Evaluating implications of technical advances.	Variation in animals Variation in plants Variation in humans DNA Plant reproduction Pollination Seed dispersal Classification Writing scientific explanations	Series circuits Parallel circuits Electrical current Potential difference Magnetic fields Making magnets Electromagnets Planning an investigation	Resultant forces Friction Mass, gravity & weight Springs Density Day & Night Seasons The moon Draw and justify conclusions
	Wider Curriculum						
8	Theme	Catastrophe	Chemistry in Action	Live & Kicking	Species at War	Studio Magic	Energy and The Earth
	Concept						
	Skills Knowledge	Porosity Chemical weathering Biological weathering Physical weathering Transportation Rock types The rock cycle Fossils	Elements & compounds Structure of the atom The periodic table Purity Oxidation Thermal decomposition Energetics Catalysts Interpreting trends in data	Respiration Circulatory system The heart Gas exchange Effects of smoking Drugs Fitness Diet & digestion Planning an investigation	Food chains Food webs Predator & prey relationships Population sampling Habitats Adaptations Natural selection Pathogens and defences	Sound waves The ear Reflection Refraction Dispersion Filtering and mixing colours Draw and justify conclusions	Infrared radiation Absorbing & emitting radiation The greenhouse effect Energy stores Carbon cycle Generating electricity Energy resources Writing scientific explanations
	Wider Curriculum						

Science

		Term1		Term2		Term3	
		Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
9 Biology	Theme	Cells	Cells	Cells, Organisation	Organisation	Organisation	Organisation
	Concept	Cells & Cell cycle	Exchange across cells	Digestion	Lungs & Circulatory system	Health	Plant transport
	Skills Knowledge	Cells and microscopy Mitosis Stem cells	Exchanging substances Diffusion Osmosis	Active transport Enzymes and digestion Food tests	Lungs Circulatory system	Health and disease Cancer	Plant tissues and transport
	Wider Curriculum						
9 Chemistry	Theme	Atomic Structure			Bonding, Structure and Properties		
	Concept	Atomic Model	Isotopes and Ions	The Periodic Table	Ionic Bonding	Covalent Bonding	Metals and Alloys
	Skills Knowledge	Structure of the Atom Development of the Atomic Model Electronic Configuration	Isotopes Calculating relative atomic mass Formation of Ions	Group 1 Group 7 Group 0 Transition Metals	States of Matter Representing ionic bonding using dot and cross diagrams Formation of ionic compounds Properties of ionic compounds	Representing covalent bonding using dot and cross diagrams Properties of giant covalent structures Properties of small molecules	Structure of metals and metal alloys Properties of metals Nanotechnology
	Wider Curriculum						
9 Physics	Theme	Stores of Energy	Transfers of Energy	Electrical Circuits	Electrical Circuits	Using Electricity	Using Electricity
	Concept						
	Skills Knowledge	The eight stores of energy Gravitational potential energy Kinetic energy Elastic potential energy Specific Heat Capacity (RP1)	Power The 4 transfers of energy Investigating insulation (RP2) Efficiency Energy Resources	Circuit symbols and diagrams Electrical charge and current Potential difference and resistance	Investigate how length of wire affects resistance (RP3) Investigate I-V characteristics of different electrical components (RP4) Investigate special resistors	Investigate series and parallel circuit combinations of resistors Investigate series and parallel combinations' effect on p.d. and current. Electrical power	The national grid Calculating electrical energy Mains electricity and safety Static electricity Electric fields
	Wider Curriculum						