Whole School Curriculum Map

Teachers review the sequence of teaching throughout the year and use their discretion to adapt, revisit or reteach content when necessary to support the learning of our students.

English	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Language							
Literature							

Whole School Curriculum Map

Teachers review the sequence of teaching throughout the year and use their discretion to adapt, revisit or reteach content when necessary to support the learning of our students.

Mathematics	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Higher							
Foundation							

Science Curriculum Map

Teachers review the sequence of teaching throughout the year and use their discretion to adapt, revisit or reteach content when necessary to support the learning of our students.

Science	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Biology	Introduction to Science	Genes 1 Organisms 2	Ecosystems 2 Genes 2	Cell Biology	Homeostasis	Introduction to Biology	Respiration
	Organisms 1 Ecosystems 1	Types of variation- inherited, environmental, continuous and discontinuous	Aerobic respiration	Cell division	The human nervous system [The brain, The eye, and Control of body temperature – Triple only]	Cell Structure	Communication and homeostasis
	Movement, muscles and the skeleton	Variation and adaptations	Anaerobic respiration	Transport in cells	Hormonal coordination in humans [Maintaining water and nitrogen balance in the body– Triple only]	Biological membranes	Excretion as an example of homeostatic control
	Body systems	Human reproduction	Structure of leaves	Principles of organisation	Plant hormones and their uses[Triple only]	Cell division, cell diversity and cellular organisation	Neuronal control
	Cells and organisation	Pregnancy	Photosynthesis	Animal tissues, organs and organ systems	Reproduction [Advantages and disadvantages of sexual and asexual reproduction, DNA structure – Triple only]	Biological molecules	Hormonal control (to be completed)
	Specialised cells and Unicellular organisms	Factors affecting pregnancy and reproductive systems	Plant minerals	Plant tissues, organs and systems	Variation and evolution [Cloning – Triple only]	Nucleotides and nucleic acids	Plant and animal responses
	Plant reproduction and seed dispersal	The breathing system	Natural selection and evolution	Non communicable diseases	The development of understanding of genetics and evolution [Theory of evolution, Speciation, The understanding of genetics – Triple only]	Enzymes	Cellular control
	Plant adaptations	Gas exchange in humans	Biodiversity	Communicable diseases	Classification of living organisms	Exchange Surfaces	Patterns of inheritance
	Food chains and webs	Factors affecting breathing system	DNA	Aseptic techniques and monoclonal antibodies (Triple only)	Adaptations, interdependence and competition	Transport in animals	Manipulating genomes
	Interdependence and food security	Healthy diet and linked diseases	Inheritance	Plant disease [Triple only]	Organisation of an ecosystem [Decomposition and Impact of environmental change – Triple only]	Transport in Plants	Cloning and biotechnology

	Bioaccumulation	Structure of the digestive system	GCSE Transition	Photosynthesis	Biodiversity and the effect of human interaction on ecosystems	Communicable diseases, disease factoprevention and the immune system	Ecosystems
	Ecology sampling	Food molecules and respiration	GCSE: Cell structure [Culturing microorganisms Sets 1 and 2 only]	Respiration	Trophic levels in an ecosystem [Triple only]	Biodiversity	Populations and sustainability
	Predator and prey relationships	Enzymes and bacteria in the digestive system	Cell division		Food production [Triple only]	Classification and evolution	Maths in Biology
			Transport in cells			Photosynthesis	Exam Practice and Revision
						Hormonal control	
Chemistry	Introduction to Science	Reactions 1 Earth 2	Matter 2 Reactions 2	Atomic structure	Rates of reaction	Atomic Structure & Isotopes	How Fast – The rate equation, orders & mechanisms
	Matter 1 Earth 1	Metals	The Periodic Table	The history and the structure of the periodic table	Reversible reactions (Altering conditions and dynamic equilibrium (Higher and Triple only)	Compounds, formulae and equations	How Far – Chemical equilibrium
	States of matter	Chemical changes	Elements and compounds	Bonding and their properties	Crude oil, hydrocarbons, and alkanes	Amount of Substance	Acids, Bases and Buffers
	Reversible changes	Combustion	Models	Nanoparticles (Triple only)	Fractional Distillation and cracking	Acids and Redox	Enthalpy and entropy
	Dissolving	Properties of metals and non-metals	Ceramics, polymers and composites	Quantitative chemistry (Moles, reacting masses, masses to equations and limiting reactants – Higher and Triple only)	Properties of Hydrocarbons	Electron Structure	Redox and electrode potentials
	Solubility and factors affecting	Types of chemical reactions	Reaction energy	Percentage yield, Atom economy, Molar concentrations, Titrations, Volumes of gases (Triple only)	Chemistry of Combustion (Higher and Triple only)	Bonding and Structure	Transition Elements
	Properties of materials	Acids alkalis and indicators	Combustion and fuels	The reactivity of metals and displacement reactions	Alkenes, Alcohols, Carboxylic Acids and Esters (Triple only)	Periodicity	Qualitative Analysis
	Separating mixtures	Reactions of acids and alkalis	Thermal decomposition	Extracting metals	Polymerisation (Triple only)	Group 2 and Halogens	Aromatic compounds
	Structure of the earth	Thermal decomposition	Catalysts	Producing salts	Chemical analysis	Qualitative Analysis	Carbonyl compounds
	Rock cycle	Reactions and conservation of mass	GCSE Transition	Neutralisation reactions	Tests for Positive and for Negative Ions Identifying Ionic Compounds	Enthalpy Changes	Carboxylic acids and esters

					Instrumental Analysis (Triple only)		
	Rock types and formation	Carbon cycle	Atomic structure (sets 1 and 2 only)	Titration (Triple only)		Reaction Rates	Amines
	The earth in space	Earth's atmosphere	The history and structure of the periodic table (sets 1 and 2 only)	Acids and the pH scale	Chemistry of the atmosphere past and present	Chemical Equilibrium	Amino Acids, Amides and Chirality
	The galaxy	Earth's Resources		Electrolysis	Finite and renewable resources	Basic Concepts of Organic Chemistry	Polyesters and Polyamides
	Movement of objects in space- reflection of sunlight, eclipses, day and seasons			Exothermic and endothermic reactions	Making water fit to drink	Alkenes & alkenes	Carbon-carbon Bond Formation
				Reaction profiles	Extracting metals (Higher and Triple only)	Alcohols and Haloalkanes	Organic Synthesis
				Bond energy calculations and energy from fuels (Higher and Triple only)	Life cycle assessments	Organic Synthesis	Chromatography and Qualitative Analysis
				Chemical cells and batteries and fuel cells (Triple only)	Rusting and alloys (Triple only)	Analytical Techniques	Spectroscopy
					Properties of Polymers Ceramics and Composites (Triple only)		
					The Haber Process and making Fertilisers (Triple only)		
Physics	Introduction to Science	Energy 1 Waves 1	Forces 2 Electromagnets 2 Energy 2 Waves 2	Energy	Forces	Measurements & Errors	Fields (Gravitational, Electric, Magnetic)
	Forces 1 Electromagnets 1	Energy stores and transfers	Forces and their effects	Insulation and specific heat capacity	Free Body Diagrams and Resolving Forces using Vector Diagrams (Higher and Triple only)	Particles and Radiation	Nuclear Physics
	Forces	Fuels	Friction and drag	Renewable sources of energy	Moments (Triple only)	Waves & Optics	Astrophysics
	Gravity	Energy in the home	Pressure, floating and sinking	Electricity	Circular Motion and momentum (Higher and Triple only) Changes in Momentum (Triple only)	Mechanics & Materials	

	Speed	Energy models	Forces and equilibrium	Circuits	Pressure in Fluids and Atmospheric Pressure (Triple only)	Electricity	
	Acceleration	Sound and its behaviour	Magnetic fields	Particle model of matter	Waves	Further mechanics & thermal physics	
	Resultant forces	Light and its behaviour	Magnetic attraction and repulsion	Density	Reflection of Waves ,Hearing Sounds, Ultrasound and Seismic Waves (Triple only)		
	Circuit components	Waves and energy	Electromagnets	Latent heat of fusion and evaporation	Electromagnetic Spectrum and it's uses		
	Current	Effects of waves	Work, Levers and turning forces	Gas pressure and volume (Triple only)	Ray Diagrams		
	Potential difference	Modelling waves	Thermal energy and transfer	Atomic structure	Visible Light and Reflection and Refraction of Light (Triple only)		
	Types of circuit		Effects of waves	Radioactivity	Convex Lenses and Concave Lenses (Triple only		
	Electrostatic forces		Modelling waves	Hazards of Radioactive Emissions and Nuclear Radiation in Medicine (Triple only)	Black Body Radiation and Infrared Radiation (Triple only)		
			Energy and waves	Nuclear Fission and Nuclear Fusion (Triple only)	Magnets and Electromagnets		
			GCSE Transition		The Motor Effect and Electric Motors (Higher and Triple only)		
			Energy		Generators, Dynamos, Loudspeakers and Microphones and Transformers (Triple only)		
			Insulation and specific heat capacity		Space (Triple only)		
			Renewable sources of energy				