



Update 24/25 Curriculum Overview Science Faculty

	Autumn	Spring	Summer
Year 7	<ul style="list-style-type: none"> Working Scientifically Chemistry Fundamentals Cells & Movement Energy... 	<ul style="list-style-type: none"> ...Energy Photosynthesis & Energy in Biomass Forces Separating Mixtures Human Repro + Variation... 	<ul style="list-style-type: none"> ...Human Repro + Variation Magnetism End of Year Assessment Metals and Acids Heating and cooling
Year 8	<ul style="list-style-type: none"> The Periodic Table... Electricity Photosynthesis, Breathing & Respiration Chemical Reactions Universe 	<ul style="list-style-type: none"> Forces and motion Earths structure Digestion and Lifestyle 	<ul style="list-style-type: none"> End of Year Assessment Evolution and Inheritance Light & sound
Year 9	<ul style="list-style-type: none"> Cell Biology Transport in Cells Atomic Structure Periodic Table Energy 	<ul style="list-style-type: none"> States of matter Rates of Reaction Chromatography Organisation Infection and Response 	<ul style="list-style-type: none"> Electricity End of Year Mock Exams Ecology
Year 10	<ul style="list-style-type: none"> Bioenergetics Bonding Electricity Non-communicable disease <p><u>Separate Science Only</u></p> <ul style="list-style-type: none"> Non-communicable Infection and Response 	<ul style="list-style-type: none"> Quantitative Chemistry Acids Radiation Electrolysis Energy Changes Homeostasis <p><u>Separate Science Only</u></p> <ul style="list-style-type: none"> Bioenergetics Homeostasis 	<ul style="list-style-type: none"> Organic Chemistry & Pollutants Forces Waves End of Year Mock Exams <p><u>Separate Science Only</u></p> <ul style="list-style-type: none"> Ecology Organic

	<ul style="list-style-type: none"> • Bonding • Quantitative & Acids • Energy • Electricity • Radiation 	<ul style="list-style-type: none"> • Electrolysis • Energy Changes • Forces 	<ul style="list-style-type: none"> • Atmosphere • Waves • End of Year Mock Exams
Year 11	<ul style="list-style-type: none"> • Inheritance, Variation, Evolution • Homeostasis & Ecology • Mock Exams • Forces & Waves & Magnetism <p><u>Separate Science Only</u></p> <ul style="list-style-type: none"> • As above. 	<ul style="list-style-type: none"> • Equilibrium, Using Resources & Rates of Reaction • Chemical change, Organic chemistry, Chemical analysis & Atmosphere • Cell biology • Organisation, Infection and response • Bioenergetics. • Energy & Electricity • Particle model of matter & Atomic structure. • Radiation <p><u>Separate Science Only</u></p> <ul style="list-style-type: none"> • Biology & Chemistry as above • Physics will review P1 	<ul style="list-style-type: none"> • Atomic structure & The Periodic Table. • Bonding & Structure • Quantitative Chemistry, Chemical & Energy changes. • GCSE Exams (6 exams) & Success! <p><u>Separate Science Only</u></p> <ul style="list-style-type: none"> • As above for Chemistry • Biology will finish B1 review • Physics review Forces & Waves & Magnetism

Year 12 Biology	<ul style="list-style-type: none"> • Biological Molecules • Cell Structure • Nucleic acids & Enzymes 	<ul style="list-style-type: none"> • ... Differentiation & Mitosis • Exchange surfaces • Transport in Animals 	<ul style="list-style-type: none"> • Biodiversity • Classification & Evolution
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	<ul style="list-style-type: none"> • Membranes • Differentiation & Mitosis... 	<ul style="list-style-type: none"> • Transport in Plants • Disease, Prevention & Immunity 	<ul style="list-style-type: none"> • End of Year Mock Exams
Year 13 Biology	<ul style="list-style-type: none"> • Communication and Homeostasis • Excretion • Ecosystems • Populations and sustainability • Photosynthesis & Respiration • Neuronal & Hormonal Control 	<ul style="list-style-type: none"> • Animal responses • Muscle Contraction • Plant responses • Cellular Control • Patterns of Inheritance • Manipulating genomes 	<ul style="list-style-type: none"> • Cloning and Biotechnology • A level Exams & Success!

Year 12 Chemistry	<ul style="list-style-type: none"> • Moles and Reactions • Acids and bases • Redox • Electrons and bonding • Periodic table 	<ul style="list-style-type: none"> • Physical Chemistry • Organic Chemistry • Halo & alcohol • Organic synthesis and analysis 	<ul style="list-style-type: none"> • Year 13 Rates • PAG 12 – Research PAG • End of Year Mock Exams
Year 13 Chemistry	<ul style="list-style-type: none"> • Equilibria • Acids, bases and buffers • Enthalpy and Entropy • Redox & Electrode Potentials • Transition elements 	<ul style="list-style-type: none"> • Aromatic Chemistry • Carbonyls and carboxylic acids • Amines Amino acids • Proteins • Synthesis • Spectroscopy 	<ul style="list-style-type: none"> • A level Exams & Success!

Year 12 Physics	<ul style="list-style-type: none"> • Foundations of Physics • Kinematics • Projectile motion 	<ul style="list-style-type: none"> • Newton's laws • Charge & current • Circuits • Wave properties 	<ul style="list-style-type: none"> • Electromagnetic waves • Quantum physics • Research PAG
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	<ul style="list-style-type: none"> • Equilibrium • Energy • Materials 	<ul style="list-style-type: none"> • Diffraction • Stationary waves 	<ul style="list-style-type: none"> • End of year mock exams
Year 13 Physics	<ul style="list-style-type: none"> • Thermal Physics • Circular motion • Gravitational fields • Stars & Cosmology • Electric fields • Magnetic Fields 	<ul style="list-style-type: none"> • Capacitance • Particle physics • Radioactivity • Nuclear physics • Medical imaging 	<ul style="list-style-type: none"> • A level Exams & Success!

Year 12 Psychology	<ul style="list-style-type: none"> • Research methods • Approaches • Social influence 	<ul style="list-style-type: none"> • Practical psychology • Memory • Attachments 	<ul style="list-style-type: none"> • Psychopathology • Practical psychology • End of Year Mock Exams
Year 13 Psychology	<ul style="list-style-type: none"> • Issues and debates • Biopsychology • Gender 	<ul style="list-style-type: none"> • Schizophrenia • Forensics • Research methods 	<ul style="list-style-type: none"> • A level Exams & Success!