

22/23 Curriculum Overview Science Faculty student friendly version

	Autumn	Spring	Summer
Year 7	 Working Scientifically Chemistry Fundamentals Cells & Movement Energy 	 Energy Photosynthesis & Energy in Biomass Forces Separating Mixtures Human Repro + Variation 	 Human Repro + Variation Magnetism End of Year Assessment Metals and Acids
Year 8	 Chemistry Fundamentals Forces & Machines Photosynthesis, Breathing & Respiration The Periodic Table 	 Chemical Reactions Magnetism Climate and Earths Resources. Evolution and Inheritance Heating and Cooling 	 Digestion and Lifestyle End of Year Assessment Electricity
Year 9	 Cell Biology Transport in Cells Atomic Structure Periodic Table Energy 	 States of matter Rates of Reaction Chromatography Organisation Infection and Response 	ElectricityEnd of Year Mock ExamsEcology
Year 10	 Exchange surfaces & Cell Cycle Bioenergetics Bonding Energy changes Organisation Infection and Response 	 Quantitative Chemistry Acids Electricity 2- Mains Homeostasis Radiation Energy Changes Electrolysis 	 Forces Organic Chemistry & Pollutants End of Year Mock Exams
	Separate Science Only	Separate Science Only • Bioenergetics	Separate Science Only • Ecology

	 Exchange surfaces & Cell Cycle Organisation Infection and Response 	Homeostasis	End of Year Mock Exams
Year 11	 Inheritance, Variation, Evolution Homeostasis & Ecology Equilibrium, Using Resources & Rates of Reaction Chemical change, Organic chemistry, Chemical analysis & Atmosphere Mock Exams Forces & Waves 	 Forces & Magnetism Atomic structure & The Periodic Table. Bonding & Structure Quantitative Chemistry, Chemical & Energy changes. Energy & Electricity Particle model of matter & Atomic structure. Cell biology 	 Organisation, Infection and response Bioenergetics. GCSE Exams (6 exams) & Success!
	 Separate Science Only Digestion Bioenergetics Cell biology, Remainder of Organisation Infection and Response. 	 Separate Science Only Inheritance, Variation & Evolution Separate Ecology 	 Separate Science Only Homeostasis GCSE Exams (6 exams) & Success!

Year 10 Astronomy	 Planet Earth The Earth-Moon-Sun System The Moon 	 Exploring the Solar System Celestial Observations The Sun 	Stellar EvolutionGalaxiesKepler's laws
Year 12 Biology	Biological MoleculesCell Structure	 Differentiation & Mitosis	BiodiversityClassification &
		 Exchange surfaces 	Evolution

	 Nucleic acids & Enzymes Membranes Differentiation & Mitosis 	 Transport in Animals Transport in Plants Disease, Prevention & Immunity 	End of Year Mock Exams
Year 13 Biology	 Communication and Homeostasis Excretion Ecosystems Populations and sustainability Photosynthesis & Respiration Neuronal & Hormonal Control 	 Animal responses Muscle Contraction Plant responses Cellular Control Patterns of Inheritance Manipulating genomes 	 Cloning and Biotechnology A level Exams & Success!
Year 12 Chemistry	 Moles and Reactions Acids and bases Redox Electrons and bonding Periodic table 	 Physical Chemistry Organic Chemistry Halo & alcohol Organic synthesis and analysis 	 Year 13 Rates PAG 12 – Research PAG End of Year Mock Exams
Year 13 Chemistry	 Equilibria Acids, bases and buffers Enthalpy and Entropy Redox & Electrode Potentials Transition elements 	 Aromatic Chemistry Carbonyls and carboxylic acids Amines Amino acids Proteins Synthesis Spectroscopy 	A level Exams & Success!
Year 12 Physics	 Foundations of Physics 	Newton's lawsCharge & current	 Electromagnetic waves

	 Kinematics Projectile motion Equilibrium Energy Materials 	CircuitsWave propertiesDiffractionStationary waves	Quantum physicsResearch PAGEnd of year mock exams
Year 13 Physics	 Thermal Physics Circular motion Gravitational fields Stars & Cosmology Electric fields Magnetic Fields 	 Capacitance Particle physics Radioactivity Nuclear physics Medical imaging 	A level Exams & Success!
Year 12 Psychology	Research methodsApproachesSocial influence	Practical psychologyMemoryAttachments	PsychopathologyPractical psychologyEnd of Year MockExams
Year 13 Psychology	Issues and debatesBiopsychologyGender	SchizophreniaForensicsResearch methods	A level Exams & Success!