



YEAR 7	TERM 1		TERM 2		TERM 3		TERM 4		TERM 5		TERM 6	
	TOPIC	Intro into Science	Physiology (Cells)	Electromagnetism (current and resistance)		Reactions (Introduction to reactions)		Genetics (Reproduction)				
KNOWLEDGE	Safety Equipment	Types of Cell Organelles Microscopes	Current in circuits Resistance Static Electricity		Particle Model Separating mixtures Chemical and Physical changes		Variation Human Reproduction					
SCIENCE SKILLS	Plotting, Scaling, Lines of best fit, Gradients, Variables											

YEAR 8	TERM 1		TERM 2		TERM 3		TERM 4		TERM 5		TERM 6	
	TOPIC	Forces (Resultant forces and density)	Matter (The periodic Table)	Physiology (Organ systems)		Electromagnetism (Magnetism)						
KNOWLEDGE	Density Resultant forces	Trends in the periodic table Properties of metals and non-metals	Breathing Digestion Movement		Magnetism Compasses Electromagnets							
SCIENCE SKILLS	Identify/Visualise, Critically analyse, Construct diagrams and graphs											

YEAR 9	TERM 1		TERM 2		TERM 3		TERM 4		TERM 5		TERM 6	
	TOPIC	Reactions (Chemical changes)	Ecology (Natural Selection)	Genetics (Inheritance)	Electromag (PD)	Cells (GCSE content)		Energy (GCSE content)				
KNOWLEDGE	Forces (Drag and Streamlining)	Earth (Carbon Cycle)	Energy (Space)	Atoms (GCSE content)	Bonding (GCSE content)							
SCIENCE SKILLS	Units, conversions, standard form, ratio, significant figures											



YEAR 10	SEPARATES		TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6		
		Biology	Bioenergetics	Moving and Changing			Health			Revision/ consolidation
		Content	Photosynthesis Aerobic Respiration Anaerobic Respiration	Respiratory System Digestive System Circulatory System Movement of materials			Types of pathogens Immunity Vaccines Antibiotics			
		Chemistry	Bonding (and atoms)	Quantities		Chemical Changes		Energy Changes		
		Content	Ionic and Covalent bonding Metallic Bonding Giant compounds	Balancing Equations Moles Conservation of mass		Neutralisation Electrolysis Reactivity Series Metals and Acids		Endothermic and Exothermic Reactions		
		Physics	Electricity	Particles	Radiation		Electromagnetism			
Content	Current Potential Difference Series and Parallel Power	Density Specific Heat Capacity Latent Heat	Radioactivity Half-Life Background radiation		Compasses Electromagnets Conductors Transformers Loudspeakers					

YEAR 10	COMBINED		TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6		
		Biology	Bioenergetics	Moving and Changing			Health			Revision/ consolidation
		Content	Photosynthesis Aerobic Respiration Anaerobic Respiration	Respiratory System Digestive System Circulatory System Movement of materials			Types of pathogens Immunity Vaccines Antibiotics			
		Chemistry	Bonding (and atoms)	Quantities		Chemical Changes		Energy Changes		
		Content	Ionic and Covalent bonding Metallic Bonding Giant compounds	Balancing Equations Moles Conservation of mass		Neutralisation Electrolysis Reactivity Series Metals and Acids		Endothermic and Exothermic Reactions		
		Physics	Electricity		Particles		Radiation			
Content	Current Potential Difference Series and Parallel Power		Density Specific Heat Capacity Latent Heat		Radioactivity Half-Life Background radiation					



		TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
YEAR 11	SEPARATES	Biology	Coordination and Control	Genetics	Variation	Ecology	Revision/consolidation Exam Season
		Content	The nervous system The Brain The Eye The endocrine system Water Balance Diabetes Human reproduction Contraception Plant hormones	DNA Inheritance Punnet squares	Evolution Speciation Cloning Selective Breeding Extinction Antibiotic Resistance Genetic modification	Pollution Adaptations Biodiversity Trophic Levels Biomass Food security Decay	
		Chemistry	Hydrocarbons	Chemical Analysis	Atmosphere	Sustainability	
		Content	Crude Oil Combustion Types of Hydrocarbons Polymerisation Amino Acids Alcohols Carboxylic Acids	Formulations Chromatography Identifying gases Flame Emissions Testing for metal ions	Changes in the atmosphere Greenhouse gases Pollutants Climate change	Materials Water Use of resources Haber process Corrosion	
Physics	Forces		Waves	Space			
Content	Equations of motion Acceleration Springs Thinking distances Levers Moments Pressure in fluids		Electromagnetic Spectrum Reflection and Refraction Wave speed Sound Waves Ultrasound Colour Lenses Seismic activity	The Solar System Life Cycle of stars Red Shift Gravity			

		TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6	
YEAR 11	COMBINED	Biology	Coordination and Control		Genetics	Variation	Ecology	Revision/consolidation Exam Season
		Content	The nervous system The endocrine system Diabetes Human reproduction Contraception		DNA Inheritance Punnet squares	Evolution Selective Breeding Extinction Antibiotic Resistance Genetic modification	Pollution Adaptations Biodiversity Food chains and webs	
		Chemistry	Rates	Hydrocarbons	Chemical Analysis	Atmosphere	Sustainability	
		Content	Measuring Rates Rates Catalysts Equilibria	Crude Oil Combustion Types of Hydrocarbons	Formulations Chromatography Identifying gases Formulations Chromatography Identifying gases	Changes in the atmosphere Greenhouse gases Pollutants Climate change	Materials Water Use of resources	
		Physics	Forces		Waves	Electromagnetism		
Content	Equations of motion Acceleration Springs Thinking distances		Electromagnetic Spectrum Reflection and Refraction Wave speed Sound Waves	Compasses Electromagnets Conductors				



SCIENCE CURRICULUM



YEAR 12	BIOLOGY	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
		Biological Molecules Cells Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Biological Molecules Cells and Viruses Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Cell Transport Mechanisms Exchange and Transport Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Classification and Biodiversity Exchange and Transport Assessment Points: Y12 January Mocks Core Practical Assessment	Retrieval and Revisiting Topics Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Microbiology Pathogens Assessment Points: Year 12 Summer Mocks Audit of practical work
YEAR 12	CHEMISTRY	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
		Atomic Structure Formulae, Equations and Amount of Substance Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Bonding Redox Chemistry Inorganic Chemistry Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Organic Chemistry Energetics Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Organic Chemistry Kinetics Assessment Points: Y12 January Mocks Core Practical Assessment	Spectroscopy Equilibria Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Energetics Energetics 2 Assessment Points: Year 12 Summer Mocks Audit of practical work
YEAR 12	PHYSICS	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
		Forces in Equilibrium Materials Uncertainties Vectors Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Electricity Motion Waves Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Work, Energy, Power Waves Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Optics DC Circuits Newton's Laws Momentum Assessment Points: Y12 January Mocks Core Practical Assessment	Particles Quantum Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Turning Points in Physics – The Electron; Wave-Particle Duality Assessment Points: Year 12 Summer Mocks Audit of practical work
YEAR 13	BIOLOGY	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
		Microbiology and Recap Energy for Biological Processes Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Modern Genetics Energy for Biological Processes Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Origins of Genetic Variation Control Systems Assessment Points: Weekly quiz End of topic tests Past papers Core Practical Assessment	Ecosystems Assessment Points: Y13 Mock A Levels Past papers Core Practical Assessment	Revision Assessment Points: Past papers Practical Endorsement Marks Submitted	External Examinations Audit of practical work
YEAR 13	CHEMISTRY	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
		Acid and Base Equilibria Kinetics 2 Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Acid and Base Equilibria Organic Chemistry 2 Analytical Techniques Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Redox 2 Organic Chemistry 3 Assessment Points: Weekly quiz End of topic tests Past papers Core Practical Assessment	Transition Metals Organic Chemistry 3 Assessment Points: Y13 Mock A Levels Past papers Core Practical Assessment	Revision Assessment Points: Past papers Practical Endorsement Marks Submitted	External Examinations
YEAR 13	PHYSICS	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
		Turning Points - Relativity Periodic Motion Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Gravitational Fields Electric Fields Magnetic Fields Assessment Points: Weekly quiz End of topic tests Core Practical Assessment	Capacitance Induction Thermal Physics Assessment Points: Weekly quiz End of topic tests Past papers Core Practical Assessment	Nuclear Energy Radioactivity Assessment Points: Y13 Mock A Levels Past papers Core Practical Assessment	Revision Assessment Points: Past papers Practical Endorsement Marks Submitted	External Examinations