Curriculum 2025-26

Consett Academy
Science Curriculum 2025-2026

KS3	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 7	Introduction to Secondary Science	Atoms, Elements and Compounds	Pure and Impure Substances	Earth and Atmosphere	Space Physics	STEM Investigations
	Cells and Organisation	Variation between Organisms	Interdependence	Reproduction in Humans	Forces in Motion	Consolidation and Preparation for Year 8
	The Particle Model	Current and Potential Difference	Sound Waves			
Year 8	Acids and Alkalis	Light Waves	Nutrition and Digestion	The Periodic Table	Magnets and Electromagnets	Inheritance
	Skeletal and Muscular Systems	Energy Changes and	Resistance	Respiratory System and Breathing	Earth's Structure	Fuel Uses and Costs
Year 9	Reproduction in plants	Forces and gravity	Chemical reactions and energetics	Particle model of matter	Atomic structure and the Periodic Table	Bonding and structure
	Waves					
	Chemical reactions	Heating and cooling	Pressure in fluids	Cell Biology	Ecology	
	Respiration and Photosynthesis	Evolution	Earth's resources			
			Particle model of matter			

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KS4 Combined Science	AQA Combined Science GCSE (Trilogy)					
	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 10	Organisation	Quantitative chemistry	Energy	Electricity	Chemistry of the atmosphere	Revision
	Forces Part 1	Atomic structure	Energy changes	Chemical changes		
	Structure and Bonding	Chemical changes	Bioenergetics	Chemical analysis	Ecology	Mocks
	Infection and response	Energy	Electricity			Work experience
Year 11	Organic Chemistry	Rates of Reaction	Using Resources	Revision	Revision	
	Forces Part 2	Waves	Magnetism			
	Homeostasis	Inheritance and Evolution	Revision			

KS4 Biology	AQA Separate Science GCSE Biology					
	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 10	Ecology	Organisation	Infection and response	Bioenergetics	Homeostasis	Revision
	Organisation	Infection and response	Bioenergetics	Homeostasis	Revision	Mocks
						Work experience
Year 11	Homeostasis	Inheritance and Evolution	Revision	Revision	Revision	
		Chemistry of the Atmosphere				

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KS4 Chemistry	AQA Separate Science GCSE Chemistry					
	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 10	Bonding and structure Quantitative chemistry	Quantitative chemistry Chemical changes	Chemical changes	Energy changes	Rates of reaction Revision	Revision Mocks Work experience
Year 11	Organic Chemistry	Organic Chemistry Chemical Analysis Using Resources	Using Resources Revision	Revision	Revision	

KS4 Physics	AQA Separate Science GCSE Physics					
	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	H	H	HT6
Year 10	Atomic structure Energy	Energy	Electricity	Electricity Forces	Forces	Revision Mocks Work experience
Year 11	Waves	Waves Magnets and Electromagnets	Space Physics Revision	Revision	Revision	

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AQA A-Level Biology	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 12	Biological molecules Cell structure and cell division	DNA, RNA and protein synthesis Diversity and classification Cell transport and cell membranes	Biodiversity Conservation Statistical tests Cells and the immune system	Circulatory system Heart structure and cardiac cycle Cardiovascular diseases Exchange and	Revision for mock exams	Revision for mock exams and begin Year 13 content
Year 13	Photosynthesis Respiration Stimuli and response	Energy transfer Nutrient cycles Genetics and inheritance Nervous coordination	Populations and ecosystems Evolution Homeostasis	Mutations and gene expression Genome projects and genome technologies	Revision for final exams	Revision for final exams

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AQA A-level Chemistry	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 12	• Atomic Structure • Amount of Substance • Bonding	• Bonding • Introduction to Organic chemistry • Alkanes • Halogenoalkanes	• Oxidation, reduction and redox equations • Group 2 • Group 7 • Energetics	• Energetics • Kinetics • Chemical equilibria and Le Chatelier's principle and Kc	• Alcohols • Organic Analysis • Periodicity	Properties of Period 3 and their metal oxides • Thermodynamics
Year 13	• Rate Equations • Optical isomerism • Aldehydes and Ketones • Carboxylic acids	• Kp • Acids and Bases • Aromatic Chemistry • Amines • Polymers	• Amino Acids, proteins and DNA • Electrode potentials and electrochemical cells • Transition metals	• Transition metals • Reactions of ions in solution • Nuclear magnetic resonance spectroscopy	• Chromatography • Organic Synthesis	

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AQA A-level Physics	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 12	Matter and radiation Quarks and leptons	Quantum physics Optics Forces in equilibrium	Projectile motion Newton's laws of motion Electric current	Forces and momentum Energy, power, density	Further mechanics Thermal physics	Revision for end of year mocks
Year 13	Gravitational fields Radioactivity	Electric fields Nuclear energy	Capacitance Optional unit	Electromagnetic induction Optional unit	Revision for end of year exams	Revision for end of year exams

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Medical Science	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 12	Diagnostic Techniques Biological Molecules, Cells and Levels of Organisation	Nervous and Endocrine Systems Immune Response and Dysfunction	The Skeleton Genetics and Health	Cardiovascular and Respiratory Systems Cancer Interpretation of Scientific Information	Preparation for exam	Introduction to Coursework
Year 13	Classification and Nature of Microorganisms Optional Unit	Transmission and Treatments of Infectious Diseases Optional Unit	Application of Techniques to Culture and Identify Microorganisms Optional Unit	Investigating the Effect of Antimicrobial Agents on Microorganism Growth Optional Unit	Coursework finalisation	Coursework finalisation

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