



"The more clearly we can focus our attention on the wonders and realities of the universe about us, the less taste we shall have for destruction." **Rachel Carson**, world-renowned conservationist, marine biologist and author of 'Silent Spring'.

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Our Science curriculum is designed to be stimulating and accessible to all. It aims to capture the enthusiasm and curiosity of students, motivating them to study Science further. Our lessons provide students with many opportunities to explore Science through a range of activities that allow them to continually develop key practical skills that will support their journey from Year 7 right through to A-level.

Students will encounter new knowledge, methods, processes and uses of Science and learn to appreciate how these affect them and the world around them.





		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Ye	ar 7	Introduction to Science Particles Forces Energy	Particles Energy Elements and Compounds	Cells Elements and Compounds Energy	Body Systems Acids and Alkalis Cells	Space Body systems Animal Reproduction Acids and alkalis	Plant Reproduction Animal Reproduction Using Chemistry
Ye	ar 8	Separating Mixtures Light	Health and Drugs Sound	Health and Drugs Electricity and Magnetism Metals	Metals Electricity and magnetism	Metals Ecosystems Electricity and magnetism Cycles	Ecosystems Cycles
	Biology	Cell structure and Transport	Cell structure and Transport	Cell division	Cell division DNA and Evolution	DNA and Evolution  Adaptations, Interdependence and Competition	Adaptations, Interdependence and Competition
Year 9	Chemistry	Atomic Structure	Atomic Structure	The Periodic Table	The Periodic Table	The Earth's Atmosphere	The Earth's Atmosphere
	Physics	Energy Transfer Conservation and Dissipation of Energy	Energy Transfer Conservation and Dissipation of Energy	Energy Resources	Energy Resources	Molecules and Matter	Molecules and Matter





	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Biology	Cell Division  Organisation and the Digestive System	Organisation and the Digestive System  Organising Plants and Animals	Organising Plants and Animals Communicable Diseases	Preventing and Treating Disease Photosynthesis	Non-communicable Diseases Photosynthesis	Respiration Human Nervous System
Chemistry	Structure and Bonding	Structure and Bonding Chemical Calculations	Chemical Calculations Chemical Changes	Chemical Changes Electrolysis	Electrolysis Energy Changes	Energy Changes Rates of Reaction
Physics	Electrical Circuits	Electrical Circuits Electricity in the Home	Electricity in the Home	Radioactivity Forces in Balance	Forces in Balance  Motion	Motion Force and Motion
Biology	Human Nervous System  Hormonal Communication	Hormonal Communication  Genetics and Reproduction	Genetics and Reproduction Variation and Evolution	Variation and Evolution  Genetics and Evolution	Organising an Ecosystem  Biodiversity and Ecosystems	Revision
Chemistry Physics	Rates of Reaction Forces and Motion	Crude Oil and Fuels Wave Properties	Chemical Analysis  Electromagnetic Waves	The Earth's Resources  Magnetism and	Revision  Revision	Revision  Revision
	Chemistry  Physics  Biology  Chemistry	Biology Cell Division Organisation and the Digestive System  Chemistry Structure and Bonding  Physics Electrical Circuits  Biology Human Nervous System Hormonal Communication  Chemistry Rates of Reaction	Biology  Cell Division Organisation and the Digestive System Organising Plants and Animals  Chemistry  Structure and Bonding Chemical Calculations  Physics  Electrical Circuits  Electricity in the Home  Biology  Human Nervous System  Hormonal Communication  Chemistry  Rates of Reaction  Crude Oil and Fuels	Biology  Cell Division Organisation and the Digestive System Organising Plants and Animals Organising Plants and Animals Communicable Diseases  Chemistry Structure and Bonding Chemical Calculations Chemical Changes  Physics Electrical Circuits Electricity in the Home Electricity in the Home Radioactivity  Biology Human Nervous System Hormonal Communication Hormonal Communication Reproduction  Chemistry Rates of Reaction  Crude Oil and Fuels  Organising Plants and Animals Communicable Diseases Chemical Calculations Chemical Calculations  Electrical Circuits Electricity in the Home Radioactivity  Variation and Evolution Chemistry  Chemical Analysis	Biology  Cell Division Organisation and the Digestive System Organisation and the Digestive System Organisation and the Digestive System Organising Plants and Animals  Chemistry Structure and Bonding Chemical Calculations Chemical Changes  Electrolysis  Physics Electrical Circuits Electricity in the Home Biology Human Nervous System Hormonal Communication Genetics and Reproduction Chemistry Rates of Reaction  Crude Oil and Fuels  Organisation and the Digestive System Communicable Diseases Photosynthesis  Chemical Calculations Chemical Calculations Chemical Calculations Chemical Changes Electricity in the Home Radioactivity Forces in Balance  Variation and Evolution Genetics and Reproduction Variation and Evolution Chemistry Rates of Reaction Crude Oil and Fuels Chemical Analysis The Earth's Resources Physics Forces and Motion Wave Properties Electromagnetic Waves Magnetism and	Biology Cell Division Organisation and the Digestive System Organising Plants and Animals Photosynthesis Photosynthesis  Chemistry Structure and Bonding Chemical Calculations Chemical Changes Electrolysis Energy Changes  Physics Electrical Circuits Electrical Circuits Electricity in the Home Radioactivity Forces in Balance Electricity in the Home Radioactivity Forces in Balance Motion  Biology Human Nervous System Hormonal Communication Genetics and Reproduction Reproduction Reproduction Variation and Evolution Genetics and Ecosystems  Chemistry Rates of Reaction Crude Oil and Fuels Chemical Analysis The Earth's Resources Revision

GCSE exam board: AQA GCSE Trilogy Combined Science (8464)





	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	Cell Division  Organisation and the Digestive System	Organisation and the Digestive System Organising Plants and Animals	Organising Plants and Animals  Communicable Diseases	Preventing and Treating Disease  Photosynthesis	Non-communicable Diseases Photosynthesis	Respiration Human Nervous System
Year 11	Human Nervous System Hormonal Communication	Hormonal Communication  Homeostasis in Action  Genetics and Reproduction	Genetics and Reproduction Variation and Evolution	Variation and Evolution  Genetics and Evolution	Organising an Ecosystem Biodiversity and Ecosystems	Revision

GCSE exam board: AQA GCSE Biology (8461)





	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	Structure and Bonding	Structure and Bonding  Chemical Calculations	Chemical Calculations Chemical Changes	Chemical Changes Electrolysis	Electrolysis Energy Changes	Energy Changes Rates of Reaction
Year 11	Rates of Reaction  Crude Oil and Fuels	Crude Oil and Fuels Organic Reactions Polymers	Polymers Chemical Analysis	The Earth's Resources Using Our Resources	Revision	Revision

GCSE exam board: AQA GCSE Chemistry (8462)





	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	Electrical Circuits	Electrical Circuits  Electricity in the Home	Electricity in the Home Radioactivity	Radioactivity Forces in Balance	Forces in Balance  Motion	Motion Force and Motion
Year 11	Force and Motion Force and Pressure	Force and Pressure Wave Properties	Electromagnetic Waves Light	Light	Revision	Revision

GCSE exam board: AQA GCSE Physics (8463)





	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Exchange Surface and Breathing	Transport in Animals	Transport in Plants	Biological Molecules	Enzymes	Year 13 course starts
	Cell Structure	Biological Membranes	Biological Molecules	Nucleic Acids	Biodiversity	Respiration
Year 12	Transport in Animals	Transport in Plants	Communicable Diseases	Classification and Evolution		Communication and Homeostasis
	Biological Membranes	Cell Division, Cell Diversity and Cell Differentiation				
	Respiration	Photosynthesis	Plant Responses	Patterns of Inheritance	Manipulating	
	Communication and	Neuronal	Patterns of	of Inneritance	Genomes	
	Homeostasis	Communication and Hormonal Control	Inheritance	Cloning and Biotechnology	Population and Sustainability	
	Excretion		Cloning and		ŕ	
Year 13	Photosynthesis	Animal Responses	Biotechnology	Ecosystems	Revision	
		Cellular Control		Manipulating		
	Neuronal Communication			Genomes		

A level exam board: OCR **Biology** A





	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Human cells and tissues	Human physiology, organs and systems		Biomedical techniques	Biomedical techniques	Biomedical techniques
Year 12	Basics of microbiology	Genetics		Genetics	Genetics  Key concepts in endocrinology, neurobiology and reproduction	Key concepts in endocrinology, neurobiology and reproduction
	Health and Disease		Human reproduction	 1		
Nutrition and metabolism  Year 13						

A level exam board: OCR Level 3 AAQ Human Biology





	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Atoms, Isotopes, Ions and	Amount of Substance	Basic Concepts of Organic Chemistry	Alkenes	Alcohols	Organic Synthesis
	Compounds	Shapes of Molecules	Alkanes	Alcohols	Haloalkanes	Spectroscopy
	Electrons and Bonding	and Intermolecular Forces	Alkenes	Enthalpy	Organic Synthesis	
Year 1	2 Amount of Substance	Acids and Redox Reactions	Periodicity	Reaction Rates and Equilibrium	Reaction Rates and Equilibrium	
	Shapes of Molecules and Intermolecular Forces		Reactivity Trends		Spectroscopy	
	Rates of Reaction	Acids, Bases and pH	Amines, Amino Acids and Polymers	Transition Elements	Revision	Revision
V 1	Equilibrium  Aromatic Chemistry	Enthalpy and Entropy	Redox and Electrode Potentials	Chromatography and Spectroscopy		
Year 1	Acids, Bases and pH	Carbonyls and Carboxylic Acids	Transition Elements			

A level exam board: OCR Chemistry A





	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	Particles and Nucleotides  Introduction to Mechanics  Motion and its Measurement	Motion and its Measurement  Newton's Laws of Motion  Fundamental Particles  Electrons and Energy Levels	Newton's Laws of Motion  Work, Energy and Power  Particles of Light	Momentum  Current Electricity	Properties of Materials  Electrical Circuits	Waves Combining Waves
Year 13	Circular Motion  Gravitation  Simple Harmonic Motion  Electric Fields	Simple Harmonic Motion  Electric Fields  Thermal Physics  Magnetic Fields	Capacitance  Magnetic Flux	Alternating Currents and Transformers  The Evidence for the Nucleus  Radioactive Decay	Nuclear Energy Astrophysics Revision	

A level exam board: AQA Physics