



Science lessons build year on year, recapping and adding to the knowledge of our students.

Teaching key skills such as undertaking investigations, making observations, recording & understanding data and predicting outcomes of experiments is done through practical work and first-hand experience to understand the concepts and processes behind life, the world, and the universe.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Lower Primary	Seasonal changes in the Environment	Scientists & Inventors	Uses of Everyday Materials	Living Things & Their Habitats	Plants	Animals Including Humans
Upper Primary	Light & Sound	Evolution & Inheritance	Changing materials	Living Things & Their Habitats	Electricity	Animals Including Humans
Year 7	Cells and Organisation	States of Matter and Separating Mixtures	Energy Changes and Transfers	Health, The Human Body, and Reproduction	Forces, Electricity and Magnetism	Atoms, The Periodic Table and Chemical Reactions
Year 8	Photosynthesis and Respiration	Space and Waves	Earth and Atmosphere, Materials and Recycling	Inheritance and Evolution, Ecosystems, and Interdependence	Acids and Alkalis	Forces, Motion and Pressure

ELC (Entry-level Certificate)	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9 ELC	Atomic structure The periodic table Metals and the periodic table Ionic bonding Covalent bonding Giant covalent compounds Metallic bonding and bonding summary States of matter	Separating mixtures Chromatography Purifying mixtures Electrolysis Acids and alkalis Neutralisation Insoluble salts Metals Recycling metals Calculations of mass		Disease Health Pathogens Pathogen spread Preventing pathogen spread The immune system Medicines		Consolidation  Retakes
Year 9 ELC	Stopping distances Balanced and unbalanced forces Measuring quantities Journeys Calculating speed and acceleration Mass, weight, and acceleration Energy transfers Wasted energy Energy resources Describing waves Wave speed and direction	Cells Unspecialised and Specialised cells Growth The Nervous system DNA Inheritance Variation Meiosis Evolution and natural selection Genetic Engineering		Electromagnetic spectrum Using the long wavelengths Using the short wavelengths EM radiation dangers Inside atoms Radioactive decay Half-life Dangers of radioactivity		Fun Science  Introduction to GCSE
Year 10/11 iGCSE Human Biology	Cells and tissues	Biological molecules  Movement of substances in out of cells	Bones, muscles, and joints	Coordination  Nutrition and energy	Respiration  Gas exchange	Internal transport
Year 10/11 iGCSE Human Biology	Homeostatic mechanisms	Reproduction and Hereditary	Disease	Year 2 Consolidation	Revision & assessment	

GCSE	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1 iGCSE Chemistry	States of matter Elements, Compounds, and mixtures	Atomic structure The Periodic Table Chemical formulae, equations, and calculations	Ionic bonding Covalent bonding Metallic bonding Electrolysis	Group 1 Alkali metals Group 7 Halogens Atmospheric Gases	Reactivity series Extraction and uses of metals Chemical tests	Year 1 Consolidation  Pre-Mock
Year 2 iGCSE Chemistry	Acids, alkalis, and titrations Acids, bases and salt preparations	Energetics Rates of reaction Reversible reactions and equilibria	Crude oil Alkanes/Alkenes Alcohols/ Esters Carboxylic acids Synthetic polymers	Year 2 Consolidation	Revision & assessment	
Year 1 iGCSE Physics	Movement and position Forces, movement, shape, and momentum	Mains electricity Energy and voltage in circuits Electric charge	Properties of waves The electromagnetic spectrum Light and sound	Energy transfers Work and power Energy resources and electricity generation	Density and pressure Change of state Ideal gas molecules	Year 1 Consolidation  Pre-Mock
Year 2 iGCSE Physics	Magnetism Electromagnetism Electromagnetic induction	Radioactivity Fission and fusion	Motions in the universe Stellar evolution Cosmology	Year 2 Consolidation	Revision & assessment	
Year 1 iGCSE Combined Science	The nature and variety of living organisms Principles of chemistry	Electricity Functions in living organisms Part 1	Forces and motion Energy and energy transfers	Functions in living organisms Part 2 Waves	Ecology and the environment Inorganic chemistry	Year 1 Consolidation  Pre-Mock
Year 2 iGCSE Combined Science	Solids, liquids and gases Astrophysics Physical and Organic Part 1	Reproduction and inheritance Magnetism and electromagnetism Use of biological resources	Radioactivity and particles Physical and Organic Part 2	Year 2 Consolidation	Revision & assessment	