



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.

Primary/KS3	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	Energy Changes and Transfers	States of Matter and Separating Mixtures	Health, The Human Body and Reproduction	Atoms, The Periodic Table and Chemical Reactions	Forces, Electricity and Magnetism
Year 8	Photosynthesis and Respiration	Space/Waves	Earth and Atmosphere, Materials and Recycling	Inheritance and Evolution/Ecosystems and Interdependence	Acids and Alkalis	Motion and Pressure

ELC (Entry Level Certificate)	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9 ELC Biology	Cell structure Unspecialised & Specialised cells Growth	Inheritance & Variation Meiosis	The Nervous system DNA Evolution & natural selection	Genetic Engineering Disease Health	Pathogens Pathogen spread. Preventing pathogen spread	The immune system Medicines
Year 9 ELC Chemistry	Atomic structure The periodic table Metals & the periodic table	Ionic bonding Covalent bonding Giant covalent compounds Metallic bonding & bonding summary	States of matter Separating mixtures	Chromatography Purifying mixtures Electrolysis	Acids & alkalis Neutralisation Insoluble salts	Metals Recycling metals Calculations involving masses
Year 9 ELC Physics	Stopping distances Balanced & unbalanced forces Measuring quantities	Journeys Calculating speed & acceleration Mass, weight & acceleration	Energy transfers Wasted energy. Energy resources	Describing waves Wave speed & direction Electromagnetic spectrum	Using the long wavelengths Using the short wavelengths EM radiation dangers	Inside atoms Radioactive decay Half-life Dangers of radioactivity

GCSE	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10/11 GCSE Biology	Key biological concepts Cells & control	Genetics Natural selection & genetic modification	Health, disease & the development of medicines Animal coordination & control	Plant structures & their functions Ecosystems & material cycles	Homeostasis Exchange & transport in animals	Revision & assessment
Year 10/11 GCSE Human Biology	Cells and tissues Biological molecules Movement of substances in and out of cells	Bones, muscles, and joints Coordination	Nutrition and energy Respiration Gas exchange	Internal transport Homeostatic mechanisms	Reproduction and heredity Disease	Revision & assessment
Year 10/11 GCSE Chemistry	States of matter Separating substances. Atomic structure Periodic Table Ionic bonding Covalent bonding	Types of substance Acids Calculations involving masses Electrolytic process. Obtaining & using metals	Reversible reactions & equilibria Transition metals, alloys & corrosion Quantitative analysis Dynamic equilibria & calculations involving gases	Chemical cells & fuel cells Groups in the periodic table Rates of reaction Heat energy changes in chemical reactions Fuels	Earth & atmospheric science Qualitative analysis Hydrocarbons Polymers/ Alcohols & carboxylic acids Bulk & surface properties of matter	Revision & assessment
Year 10/11 GCSE Physics	Motion Forces of motion Conservation of energy	Waves Light & the electromagnetic spectrum	Radioactivity Astronomy	Energy Forces doing work. Forces & their effects Electricity & circuits Static electricity	Magnetism & the motor effect Electromagnetic induction Particle model Forces & matter	Revision & assessment