

	Half term 1 Learning Overview	Half term 2 Learning Overview	Half term 3 Learning Overview	Half term 4 Learning Overview	Half term 5 Learning Overview	Half term 6 Learning Overview
Year 7	Organisms <ul style="list-style-type: none"> • Movement – Structure and role of the skeletal system • Cells – Structure and function of eukaryotes and prokaryotes Forces <ul style="list-style-type: none"> • Speed • Gravity 	Matter <ul style="list-style-type: none"> • Particle model • Separating mixtures Ecosystem <ul style="list-style-type: none"> • Interdependence • Plant reproduction 	Electromagnets <ul style="list-style-type: none"> • Voltage, resistance and current • Static electricity Reactions <ul style="list-style-type: none"> • Metals and non-metals • Acids and alkalis 	Genes <ul style="list-style-type: none"> • Variation • Human reproduction Energy <ul style="list-style-type: none"> • Energy costs • Energy transfer 	Earth <ul style="list-style-type: none"> • Earth structure • The Universe 	Waves <ul style="list-style-type: none"> • Sound • Light Revision <ul style="list-style-type: none"> • End of year assessment
Year 8	Organisms (Group 1 first) <ul style="list-style-type: none"> • Breathing • Digestive system Forces (Group 2 first) <ul style="list-style-type: none"> • Contact forces • Pressure 	Matter (Group 1 first) <ul style="list-style-type: none"> • Periodic table • Elements Ecosystems (Group 2 first) <ul style="list-style-type: none"> • Respiration • Photosynthesis 	Electromagnets (Group 1 first) <ul style="list-style-type: none"> • Electromagnets • Magnets Reactions (Group 2 first) <ul style="list-style-type: none"> • Chemical energy • Types of reaction 	Genes (Group 1 first) <ul style="list-style-type: none"> • Evolution • Inheritance Energy (Group 2 first) <ul style="list-style-type: none"> • Work • Heating and cooling 	Earth <ul style="list-style-type: none"> • Climate • Earth resources 	Waves <ul style="list-style-type: none"> • Wave effects • Wave properties Revision <ul style="list-style-type: none"> • End of year assessment
Year 9	Cell Biology <ul style="list-style-type: none"> • Cell structure • Cell division • Transport in cells Atomic Structure and the periodic table <ul style="list-style-type: none"> • A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes • The periodic table 	Energy <ul style="list-style-type: none"> • Energy changes in a system, and the ways energy is stored before and after such changes • Conservation and dissipation of energy Organisation <ul style="list-style-type: none"> • Principles of organisation • Plant tissues and organ systems 	Bonding, structure and the properties of matter <ul style="list-style-type: none"> • Chemical bonds, ionic, covalent and metallic • Structure and bonding of carbon Electricity <ul style="list-style-type: none"> • Current, potential difference and resistance • Series and parallel circuits • Domestic uses and safety • Energy transfers 	Infection and response <ul style="list-style-type: none"> • Communicable diseases Quantitative chemistry <ul style="list-style-type: none"> • Chemical measurements, conservation of mass and the quantitative interpretation of chemical equations • Use of amount of substance in relation to masses of pure substances. 	Chemical changes <ul style="list-style-type: none"> • Reactivity of metals • Reactions of acids • Electrolysis Particle model of matter <ul style="list-style-type: none"> • Changes of state and the particle model • Internal energy and energy transfers • Particle model and pressure 	Energy changes <ul style="list-style-type: none"> • Exothermic and endothermic reactions Revision <ul style="list-style-type: none"> • End of year assessment

	Half term 1 Learning Overview	Half term 2 Learning Overview	Half term 3 Learning Overview	Half term 4 Learning Overview	Half term 5 Learning Overview	Half term 6 Learning Overview
Year 10	<p>Bioenergetics</p> <ul style="list-style-type: none"> • Photosynthesis • Respiration <p>Atomic structure</p> <ul style="list-style-type: none"> • Atoms and isotopes • Atoms and nuclear radiation 	<p>The rate and extent of chemical change</p> <ul style="list-style-type: none"> • Rate of reaction • Reversible reactions and dynamic equilibrium 	<p>Homeostasis and response</p> <ul style="list-style-type: none"> • Homeostasis • Human nervous system • Hormonal coordination in humans <p>Forces</p> <ul style="list-style-type: none"> • Forces and their interactions • Work done and energy transfer • Forces and elasticity • Forces and motion • Forces, accelerations and Newton's law of motion 	<p>Organic Chemistry</p> <ul style="list-style-type: none"> • Carbon compounds as fuel and feedstock <p>Inheritances, variation and evolution</p> <ul style="list-style-type: none"> • Reproduction • Variation and evolution • The development and understanding of genetics and evolution • Classification of living organisms 	<p>Chemical analysis</p> <ul style="list-style-type: none"> • Purity, formulations and chromatography • Identification of common gases 	<p>Waves</p> <ul style="list-style-type: none"> • Waves in air, fluids and solids • Electromagnetic waves <p>Revision</p>

Year 11	<p>Ecology</p> <ul style="list-style-type: none"> Adaptations, interdependence and competition Organisation of an ecosystem Biodiversity and the effect of human interaction on ecosystems <p>Magnetism and electromagnetism</p> <ul style="list-style-type: none"> Permanent and induces magnetism, magnetic forces and fields The motor effect 	<p>Chemistry and the atmosphere</p> <ul style="list-style-type: none"> Composition and evolution of the Earth's atmosphere Carbon dioxide and methane as a greenhouse gas Common atmospheric pollutants and their sources <p>Using resources</p> <ul style="list-style-type: none"> Using the Earth's resources and obtaining potable water Life cycle assessment and recycling 	<p>Triple Triple content</p>	<p>Trilogy Exam practise Key practical revision</p>	<p>Triple Triple content</p>	<p>Trilogy Exam practise Key practical revision</p>	<p>Triple Exam practise Key practical revision</p>	<p>Trilogy Exam practise Key practical revision</p>	

<p>Key</p> <p>Biology units</p> <p>Chemistry units</p> <p>Physics units</p>
