

Long term plan

Subject: **Science**

	Year 7	Year 8	Year 9	Year 10	Year 11
LC1	<ul style="list-style-type: none"> • A balanced diet • The digestive system • The circulatory system • The effect of drugs 	<ul style="list-style-type: none"> • Our solar system • The movement of planets • Weight and mass calculations • Phases of the Moon • The lifecycle of stars 	Cells and cell division The structure of an atom and Periodic Table Energy - stores, transfers and efficiency.	Homeostasis and hormones Rate of chemical reactions and Calculations Forces	Enzymes Periodic table and calculations Energy and circuits
LC2	<ul style="list-style-type: none"> • Energy types and transfers • Forces • Calculating speed • Interpreting distance-time graphs 	<ul style="list-style-type: none"> • The atmosphere and how it has changed • Pollutants Rate of chemical reactions 	Movement of particles and plants Group characteristics and energy changes Electricity	Reproduction Equilibrium Movement	Particle movement Bonding Specific heat capacity
LC3	<ul style="list-style-type: none"> • Properties of the states of matter • The changes of state • Elements and compounds • Techniques for separating mixtures • Atomic structure • The Periodic Table 	<ul style="list-style-type: none"> • Reproductive system • The menstrual cycle • Conception • Pregnancy • Natural selection and evolution 	Cells, tissues and organs Bonding National Grid and atomic structure	Variation and evolution Organic chemistry and chemical testing Momentum	Immunity and disease Extraction of metals and energetics Motion and forces

LC4	<ul style="list-style-type: none"> • Cells • Photosynthesis and the structure of a leaf 	<ul style="list-style-type: none"> • Electrical components • Electrical circuits 	Diseases and immunity 1 Metals and extraction Atomic structure	Communities and adaptations The atmosphere and how it has changed	Plant tissues Rates of reaction and equilibrium Waves and magnetism
	<ul style="list-style-type: none"> • Ecological relationships • Adaptations for survival • Classification 	<ul style="list-style-type: none"> • Understanding current and potential difference • Calculating resistance • Magnets • Electromagnets 		Waves	
LC5	<ul style="list-style-type: none"> • Observations of chemical reactions Gas tests • Reactivity • pH scale Acid reactions • 	Ethical issues in Science - waste disposal, AI, cloning, The human genome project, pesticides, psychological research models	Diseases and immunity 2 Reactivity and Electrolysis Particle model	Biodiversity and human impact Life cycle assessments and water treatment Magnetism	