

Long Term Plan 2023-24

Subject: Science

Biology, Chemistry, Physics



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Cells & organisation, Solids, liquids and gases,	Reproduction & variation Forces (motion)	Element, compounds and mixtures Energy stores	Diet and nutrition, Circuits	Food chains and webs. Chemical reactions Particle theory	Rock cycle Space
Year 8	Digestion Periodic table and atomic structure,	Exchange surfaces Forces (pressure) Reactions of metals	Acids and alkali Unicellular organisms Sound	Skeletal system properties of materials. Energy resources and transfers	Photosynthesis Light	Relationships in ecosystems, Earth and its atmosphere
Year 9	Health Separating mixtures	Magnets and electromagnets Respiration	Fossil fuels Energy in the home	Inheritance, Evolution and biodiversity	Transition – Bridging unit	Transition- Bridging unit
End of Key Stage 3						
Year 10 Triple	Cell biology Energy Structure and bonding	Organisation Electricity Quantitative chem	Infection & response Particle model of matter Chemical changes	Bioenergetics Atomic structure Energy changes	Homeostasis Forces Rates of reaction	Homeostasis continued Forces continued Rates of reaction continued
Year 10 Combined	Cell biology Energy	Structure and bonding Electricity	Quantitative chemistry Organisation	Chemical changes Particle model of matter	Infection and response Atomic structure	Bioenergetics Energy changes
Year 11 Triple	Rates of reaction Forces part 2 Homeostasis	Organic chemistry Waves Inheritance	Chemical analysis & Atmosphere Magnets Ecology	Using resources Space physics Ecology continued	Exam prep	Exam prep
Year 11 Combined	Energy changes & Rates of reaction Homeostasis	Inheritance Forces	Organic and chemical analysis Ecology	The atmosphere Waves	Using resources Magnets	Exam prep
End of Key Stage 4						

Year 12 Chemistry	Foundation chemistry part 1	Foundation chemistry part 2, Periodicity, Group 2 and 7	Enthalpy, Rates & Equilibria	Organic chemistry	Analysis & spectroscopy	Exam prep And Year 13 transition Kinetics
Year 13 Chemistry	Kinetics, equilibria, pH & Thermodynamics	Redox Electrochemistry and transition metals	Carbonyls, Aromatics, Esters and Amines	Amino acids, Polymers, Chromatography and spectroscopy	Exam prep	Exam prep
Year 12 Biology	Microscopes & cells Exchange surfaces	Biological molecules Transport in animals	Enzymes & membranes Transport in plants	Cell division Communicable diseases	Classification & evolution Biodiversity	Exam prep And Year 13 transition
Year 13 Biology	Neuronal Communication Genetics	Hormonal Communication & Homeostasis	Respiration Genome	Photosynthesis Cloning	Photosynthesis Tropism	Exam prep

End of Key Stage 5