## Long Term Plan 2024-25





	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	(8 weeks)	(7 weeks)	(6 weeks)	(7 weeks)	(4 weeks)	(7 weeks)
Year 7	Cells & organisation, Solids, liquids and gases,	Element, compounds and mixtures Forces (motion)	Reproduction  Energy stores	Diet and nutrition, Circuits Chemical reactions	Food chains and webs.  Space	Particle theory Rock cycle
Year 8	Digestion Periodic table and atomic structure,	Exchange surfaces Forces (pressure) Reactions and properties of materials	Acids and alkali Sound	Skeletal system Energy resources and transfers	Photosynthesis Light	Relationships in ecosystems,  Earth and its atmosphere
Year 9	Health Energy in the home	Respiration Magnets and electromagnets	Fossil fuels Inheritance, Evolution and biodiversity Circuits	Separating Techniques  Transition – Bridging unit  Atomic structure and periodic table  Transition- Bridging unit  Cells  Transition- Bridging unit  Energy		

End of Key Stage 3

Year 10	Cell biology-	Organisation	Infection & response	Bioenergetics	Homeostasis	Homeostasis continued
Triple	required practicals	Quantitative chem	Chemical changes	Energy changes	Rates of reaction	Rates of reaction continued
	Electricity	Particle model of	Atomic structure	Atomic structure	Forces	Forces continued
		matter		continued		
	Structure and					
	bonding					
Year 10	Cell biology-	Structure and	Quantitative chemistry	Chemical	Infection and	Energy changes
Combined	required practicals	bonding	Electricity	changes	response Atomic	Bioenergetics
	Energy	Organisation		Particle model of	structure	
				matter		
Year 11	Rates of reaction	Organia alcandator	Chemical analysis	Halian range in a	France Broom	France man
rear 11		Organic chemistry		Using resources	Exam prep	Exam prep
Triple	Forces part 2	Waves	&Atmosphere	Space physics		
	Homeostasis	Inheritance	Magnets			
			Ecology	Ecology		
				continued		
Year 11	Energy changes &	Inheritance	Organic and chemical	The atmosphere	Using resources	Exam prep
Combined	Rates of reaction Homeostasis	Forces	analysis	Waves	Magnets	
Combined	Homeosiasis		Ecology			

End of Key Stage 4

Year 12	Foundation	Foundation	Enthalpy, Rates &	Organic	Analysis &	Exam prep And Year 13
Chemistry	chemistry part 1	chemistry part 2, Periodicity, Group 2 and 7	Equilibria	chemistry	spectroscopy	transition Kinetics
Year 13	Kinetics, equilibria,	Redox	Carbonyls, Aromatics,	Amino acids,	Exam prep	Exam prep
Chamielm	pH &	Electrochemistry	Esters and Amines	Polymers,		
Chemistry	Thermodynamics	and transition		Chromatography		
		metals		and spectroscopy		
Year 12	Biological	Biological	Cells and the immune	DNA, RNA and	Diversity,	Required practicals
Diology	molecules A	molecules B	system	protein synthesis	classification	Revisiting topics to
Biology					and variation	consolidate learning
	Cell structure	Cell membrane	Exchange and	Exchange and	Exchange and	
			transport	transport systems	transport	
				В	systems	
Year 13	Energy and	Respiration	Neuronal	Control of gene	Required	Required practicals
Piology	ecosystems		communications	expression	practicals	
Biology						Exam prep
	Inheritance and	Evolution and	Populations and	Genome projects	Exam prep	
	populations	speciation	ecosystems			

End of Key Stage 5