

End Points

	Year 7	
Term 1	Cells, matter, forces	
	<ul style="list-style-type: none"> Describe structure and function of plant and animal cells Explain particle model of solids, liquids and gases Describe forces and their effects on motion 	<ul style="list-style-type: none"> Use simple scientific diagrams and labelled models Record and interpret basic data from practicals Use key scientific vocabulary accurately
Term 2	Separation, magnetism, chemical reactions, space	
	<ul style="list-style-type: none"> Describe methods of separating mixtures Explain how magnets interact and produce fields Identify evidence of chemical reactions 	<ul style="list-style-type: none"> Describe structure of the solar system Present observations clearly from experiments Identify patterns in scientific data
Term 3	Acids and alkalis, digestion and health	
	<ul style="list-style-type: none"> Describe properties of acids and alkalis Explain neutralisation reactions Describe structure and function of digestive system 	<ul style="list-style-type: none"> Explain role of enzymes in digestion Carry out simple investigations safely Use basic scientific explanations (cause → effect)
Term 4	Speed, gas exchange,	
	<ul style="list-style-type: none"> Calculate speed using the equation Interpret simple graphs Describe gas exchange system in humans 	<ul style="list-style-type: none"> Explain adaptations of lungs Present data in tables and graphs Explain trends using scientific reasoning
Term 5	Waves, reproduction	
	<ul style="list-style-type: none"> Describe wave properties and types Explain how sound and light travel Describe human reproductive systems 	<ul style="list-style-type: none"> Explain fertilisation and development Use diagrams to support explanations Answer structured GCSE-style questions (short answers)
Term 6	Periodic table, transport systems	
	<ul style="list-style-type: none"> Describe elements, compounds and mixtures Identify patterns in the periodic table Describe transport systems in plants and animals 	<ul style="list-style-type: none"> Explain how substances move around organisms Apply knowledge to unfamiliar contexts Demonstrate secure KS3 foundational knowledge

	Year 8	
Term 1	Charge and electricity, energy and power, energetics, light	
	<ul style="list-style-type: none"> Describe electrical circuits and current Explain energy stores and transfers Describe properties of light and reflection 	<ul style="list-style-type: none"> Construct and interpret circuit diagrams Apply maths skills in calculations Explain processes using scientific models
Term 2	Reaction of metals, bioenergetics	
	<ul style="list-style-type: none"> Describe reactions of metals with acids Explain reactivity trends Describe photosynthesis and respiration 	<ul style="list-style-type: none"> Compare energy transfer processes in organisms Analyse experimental results Write extended scientific explanations
Term 3	Coordination, density and pressure, electrical circuits	
	<ul style="list-style-type: none"> Describe nervous system and coordination Explain pressure in solids, liquids and gases Analyse electrical circuits in more detail 	<ul style="list-style-type: none"> Construct and interpret graphs Apply equations confidently Explain relationships between variables
Term 4	Genetics, interdependence	
	<ul style="list-style-type: none"> Describe inheritance and variation Explain simple genetic inheritance Describe ecosystems and interdependence 	<ul style="list-style-type: none"> Explain impact of environmental changes Interpret data from ecological investigations Use evidence to support explanations
Term 5	Reactivity, respiration, earth and the atmosphere	
	<ul style="list-style-type: none"> Explain reactivity series Describe respiration in detail Explain composition of Earth's atmosphere 	<ul style="list-style-type: none"> Evaluate environmental issues Analyse trends in data Construct extended responses with reasoning
Term 6	Heating and cooling, variation	
	<ul style="list-style-type: none"> Explain heating and cooling processes Describe particle behaviour in energy transfer Analyse variation within populations 	<ul style="list-style-type: none"> Interpret graphs and data sets Apply knowledge across topics Demonstrate readiness for bridging year

	Year 9	
Term 1	Bridging unit	
	<ul style="list-style-type: none"> • Apply KS3 knowledge to GCSE-style questions • Use command words effectively (describe/explain/evaluate) • Analyse data and identify patterns 	<ul style="list-style-type: none"> • Construct structured extended responses • Demonstrate understanding of key foundational concepts • Show readiness for GCSE-level content
Term 2	Cell structure and transport, atomic structure and the periodic table	
	<ul style="list-style-type: none"> • Explain cell structure and transport processes (diffusion, osmosis) • Describe atomic structure and periodic trends • Apply knowledge to exam-style questions 	<ul style="list-style-type: none"> • Interpret practical results • Use scientific terminology accurately • Construct extended explanations
Term 3	Energy, organisation of animals and plants	
	<ul style="list-style-type: none"> • Describe energy stores and transfers in systems • Explain organisation in animals and plants • Apply mathematical equations in physics 	<ul style="list-style-type: none"> • Analyse data and graphs • Link biology systems together • Demonstrate GCSE-level reasoning
Term 4	Structure and bonding	
	<ul style="list-style-type: none"> • Describe ionic, covalent and metallic bonding • Explain properties based on structure • Apply particle model to explain materials 	<ul style="list-style-type: none"> • Interpret diagrams and models • Answer extended chemistry questions • Apply knowledge to unfamiliar contexts
Term 5	Electricity, infection and response	
	<ul style="list-style-type: none"> • Analyse electrical circuits quantitatively • Explain infection and immune response • Interpret graphs and experimental data 	<ul style="list-style-type: none"> • Use mathematical skills confidently • Apply scientific knowledge to real-world contexts • Construct high-level exam responses
Term 6	Quantitative chemistry	
	<ul style="list-style-type: none"> • Apply conservation of mass • Balance equations and perform calculations • Use mole concept (intro level) 	<ul style="list-style-type: none"> • Analyse results and errors • Apply numerical skills in chemistry • Demonstrate readiness for full GCSE study

	Year 10	
Term 1	Particles and matter, photosynthesis, chemical changes	
	<ul style="list-style-type: none"> Explain key biological and chemical processes in detail Apply knowledge across topics Use practical results to support explanations 	<ul style="list-style-type: none"> Demonstrate understanding of core Paper 1 content Apply maths skills accurately Write extended GCSE responses
Term 2	Radioactivity, respiration, energy changes	
	<ul style="list-style-type: none"> Explain energy changes in systems Describe respiration in detail Explain radioactive processes 	<ul style="list-style-type: none"> Interpret graphs and decay data Apply equations and calculations Demonstrate increasing exam confidence
Term 3	Revision	
	<ul style="list-style-type: none"> Identify and address misconceptions Apply knowledge across multiple topics Improve exam technique 	<ul style="list-style-type: none"> Demonstrate improved retention Use feedback to improve responses Prepare for formal assessments
Term 4	Rates of reaction	
	<ul style="list-style-type: none"> Explain rate factors and collision theory Describe hormonal control systems Interpret experimental data 	<ul style="list-style-type: none"> Apply knowledge in unfamiliar contexts Use higher-tier reasoning (where appropriate) Construct extended explanations
Term 5	forces, the hormonal system, organic chemistry	
	<ul style="list-style-type: none"> Apply physics equations to motion and forces Describe organic chemistry basics Analyse data and graphs 	<ul style="list-style-type: none"> Solve multi-step problems Demonstrate increased depth (Triple students) Apply knowledge synoptically
Term 6	motion, reproduction, chemical analysis	
	<ul style="list-style-type: none"> Explain motion and forces relationships 	<ul style="list-style-type: none"> Interpret results and evaluate methods

	<ul style="list-style-type: none"> Describe reproduction and inheritance Identify substances using chemical tests 	<ul style="list-style-type: none"> Apply knowledge to exam questions Demonstrate readiness for Year 11
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	Year 11	
Term 1	Evolution and variation, waves, ecology, electromagnetism, atmospheric chemistry, using resources	
	<ul style="list-style-type: none"> Explain complex scientific ideas (evolution, waves, ecosystems) Apply knowledge across all GCSE topics Interpret complex data and graphs 	<ul style="list-style-type: none"> Demonstrate high-level reasoning Apply maths skills fluently Complete full exam-style responses
Term 2	Revision	
	<ul style="list-style-type: none"> Demonstrate secure knowledge of full specification Apply knowledge to unfamiliar contexts Refine exam technique and timing 	<ul style="list-style-type: none"> Identify strengths and gaps using QLA Improve extended writing responses Achieve readiness for external examinations
Term 3	Revision	
	<ul style="list-style-type: none"> Demonstrate secure knowledge of full specification Apply knowledge to unfamiliar contexts Refine exam technique and timing 	<ul style="list-style-type: none"> Identify strengths and gaps using QLA Improve extended writing responses Achieve readiness for external examinations
Term 4	Revision	
	<ul style="list-style-type: none"> Demonstrate secure knowledge of full specification Apply knowledge to unfamiliar contexts Refine exam technique and timing 	<ul style="list-style-type: none"> Identify strengths and gaps using QLA Improve extended writing responses Achieve readiness for external examinations
Term 5	/	
Term 6	/	