

Year 7	T1	T2	T3	T4	T5	T6
Content / Topic for Term	<ul style="list-style-type: none"> • Introduction • Organisms • Matter 	<ul style="list-style-type: none"> • Organisms (cont) • Matter (cont) • Forces • Ecosystem processes 	<ul style="list-style-type: none"> • Ecosystem processes (cont) • Reactions • Energy 	<ul style="list-style-type: none"> • Earth • Reactions (cont.) • Electricity and magnetism 	<ul style="list-style-type: none"> • Earth (cont) • Waves • Electricity and magnetism (cont) • Genes 	<ul style="list-style-type: none"> • Waves (cont) • Genes (cont) • Revisit earlier topics
Key Knowledge for acquisition, recall and application in assessment or exam	<p>Introduction</p> <ul style="list-style-type: none"> • equipment • lab safety • key science skills <p>Teacher 1</p> <p>Organisms</p> <ul style="list-style-type: none"> • level of organisation • the skeleton • muscles and joints • observing cells • plant and animal cells • unicellular organisms 	<p>Teacher 1</p> <p>Organisms (cont)</p> <ul style="list-style-type: none"> • specialised cells • movement of substances <p>Forces</p> <ul style="list-style-type: none"> • introduction to forces • speed • distance time graphs • gravity 	<p>Teacher 1</p> <p>Reactions</p> <ul style="list-style-type: none"> • chemical observations • acids and alkalis • indicators and ph • acid strength • neutralisation • making salts • more about elements 	<p>Teacher 1</p> <p>Reactions (cont)</p> <ul style="list-style-type: none"> • chemical reactions of metals and non-metals • metals and acids • metals and oxygen • metals and water • metal displacement reactions <p>Electricity and magnetism</p> <ul style="list-style-type: none"> • circuits and current 	<p>Teacher 1</p> <p>Electricity and magnetism (cont)</p> <ul style="list-style-type: none"> • resistance • charging up <p>Genes</p> <ul style="list-style-type: none"> • variation, continuous and discontinuous • adapting to change • adolescence 	<p>Teacher 1</p> <p>Genes (cont)</p> <ul style="list-style-type: none"> • reproductive systems • fertilisation and foetus development • the menstrual cycle <p>Revisit earlier topics</p>

	Teacher 2 Matter <ul style="list-style-type: none"> the particle model melting and freezing boiling more changes of state diffusion gas pressure pure substances and mixtures 	Teacher 2 Matter (cont) <ul style="list-style-type: none"> solutions solubility separation techniques chromatography Ecosystem processes <ul style="list-style-type: none"> food chains and webs disruption to food chains ecosystems 	Teacher 2 Ecosystem processes (cont) <ul style="list-style-type: none"> competition part 1 competition part 2 flowers and pollination fertilisation and seed dispersal Energy <ul style="list-style-type: none"> food and fuels energy resources energy and power energy dissipation 	<ul style="list-style-type: none"> potential difference series and parallel Teacher 2 Earth <ul style="list-style-type: none"> the structure of the earth sedimentary rocks igneous and metamorphic rocks the rock cycle ceramics 	Teacher 2 Earth (cont) <ul style="list-style-type: none"> the night sky solar system the earth the moon Waves <ul style="list-style-type: none"> sound waves frequency, pitch and hearing light and colour 	Teacher 2 Waves (cont) <ul style="list-style-type: none"> reflection refraction the eye and vision Revisit earlier topics
Key skills to apply in assessment or exam	<ul style="list-style-type: none"> Using key scientific terminology Plotting line graphs Scientific calculations (maths) Laboratory safety 	<ul style="list-style-type: none"> Using key scientific terminology Identify scientific equipment Using microscopes Laboratory safety Identifying and using equipment 	<ul style="list-style-type: none"> Using key scientific terminology Making observations Laboratory safety Identifying and using equipment 	<ul style="list-style-type: none"> Using key scientific terminology Making observations Identifying scientific equipment Building circuits 	<ul style="list-style-type: none"> Using key scientific terminology Respond to written questions Presentations of information Understanding models 	<ul style="list-style-type: none"> Using key scientific terminology Explaining observations Collecting and handling data

Science
Year 7 curriculum map

	<ul style="list-style-type: none"> • Using a bunsen burner 	<ul style="list-style-type: none"> • Identifying chemical hazards and risk 	<ul style="list-style-type: none"> • Identifying chemical hazards and risk 	<ul style="list-style-type: none"> • Understanding models • Articulating complex scientific ideas 	<ul style="list-style-type: none"> • Articulating complex scientific ideas 	
Title of Knowledge Organiser	<ul style="list-style-type: none"> • Particle model • Cells • Separating mixtures 	<ul style="list-style-type: none"> • Separating mixtures • Movement • Speed & gravity • Interdependence 	<ul style="list-style-type: none"> • Acids and alkalis • Metals and non-metals • Energy costs and energy transfers 	<ul style="list-style-type: none"> • Metals and non-metals • Plant reproduction • Potential difference, resistance and current • Earth structure 	<ul style="list-style-type: none"> • Potential difference, resistance and current • The universe • Variation • Sound 	<ul style="list-style-type: none"> • Light • Human reproduction