

Year 8	T1	T2	T3	T4	T5	T6
Content / Topic for Term	<ul style="list-style-type: none"> Organisms Matter 	<ul style="list-style-type: none"> Organisms (cont.) Forces Matter (cont) Ecosystem processes 	<ul style="list-style-type: none"> Forces (cont) Reactions Ecosystem processes (cont) Energy 	<ul style="list-style-type: none"> Reactions (cont) Electricity and magnetism Energy (cont) Earth 	<ul style="list-style-type: none"> Electricity and magnetism (cont) Genes Earth (cont) Waves 	<ul style="list-style-type: none"> Genes (cont)
Key Knowledge for acquisition, recall and application in assessment or exam	<p>Teacher 1 Organisms</p> <ul style="list-style-type: none"> gas exchange and breathing drugs alcohol and smoking nutrients and healthy diets food tests digestive system <p>Teacher 2 Matter</p> <ul style="list-style-type: none"> atoms and elements compounds chemical formulae 	<p>Teacher 1 Organisms (cont)</p> <ul style="list-style-type: none"> enzymes and bacteria in digestion <p>Forces</p> <ul style="list-style-type: none"> friction and drag squashing and stretching turning forces pressure in gases pressure in liquids <p>Teacher 2 Matter (cont)</p> <ul style="list-style-type: none"> elements of group 7 elements of group 0 	<p>Teacher 1 Forces (cont.)</p> <ul style="list-style-type: none"> stress on solids <p>Reactions</p> <ul style="list-style-type: none"> atoms in chemical reactions combustion thermal decomposition conservation of mass <p>Teacher 2 Ecosystem processes (cont)</p> <ul style="list-style-type: none"> investigating photosynthesis plant minerals 	<p>Teacher 1 Reactions (cont)</p> <ul style="list-style-type: none"> exothermic and endothermic energy level diagrams bond energy <p>Electricity and magnetism</p> <ul style="list-style-type: none"> magnets and magnetic fields electromagnets <p>Teacher 2 Energy (cont)</p> <ul style="list-style-type: none"> energy transfer: particles <p>Earth</p> <ul style="list-style-type: none"> carbon cycle 	<p>Teacher 1 Electricity and magnetism (cont)</p> <ul style="list-style-type: none"> using electromagnets <p>Genes</p> <ul style="list-style-type: none"> natural selection and Darwin extinction biodiversity inheritance and DNA <p>Teacher 2 Earth (cont)</p> <ul style="list-style-type: none"> recycling <p>Waves</p> <ul style="list-style-type: none"> sound and water waves 	<p>Teacher 1 Genes (cont)</p> <ul style="list-style-type: none"> genetics genetic modification <p>Revisit earlier topics Including Year 7 review and spaced learning</p> <p>Teacher 2 Revisit earlier topics Including Year 7 review and spaced learning</p>

Science
Year 8 curriculum map

	<ul style="list-style-type: none"> polymers the periodic table elements of group 1 	<p>Ecosystem processes</p> <ul style="list-style-type: none"> aerobic respiration anaerobic respiration biotechnology photosynthesis leaves 	<p>Energy</p> <ul style="list-style-type: none"> work, energy and machines energy and temperature 	<ul style="list-style-type: none"> global warming climate change extracting metals (part 1) extracting metals (part 2) 	<ul style="list-style-type: none"> radiation and energy modelling waves 	
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 Identifying chemical hazards and risk 	<ul style="list-style-type: none"> Using key scientific terminology Making observations Laboratory safety Identifying and using equipment Identifying chemical hazards and risk 	<ul style="list-style-type: none"> Using key scientific terminology Making observations Identifying scientific equipment Building circuits Understanding models Articulating complex scientific ideas 	<ul style="list-style-type: none"> Using key scientific terminology Respond to written questions Presentations of information Understanding models Articulating complex scientific ideas Collecting and handling data 	<ul style="list-style-type: none"> Using key scientific terminology Explaining observations
Title of Knowledge Organiser	8.3 - breathing 5.3 - elements 5.4 - the periodic table	1.3-1.4 contact forces and pressure 9.3 - respiration	6.3-6.4 - types of reactions and chemical equations 3.3-3.4 - work and heating and cooling	2.3-2.4 - magnetism and electromagnets 7.3-7.4 - climate and earth resources	10.3-10.4 - evolution and inheritance 4.3-4.4 - wave effects and properties	See all previous kos