

Year 9 Science Scheme of Learning Curriculum Grid

Term	Unit	Content covered within unit
Autumn 1	Metals and acids	<ul style="list-style-type: none"> • Acids and alkalis • Indicators and pH • Neutralisation • Making salt • Acids and metals • Acids and oxygen • Metals and water • Metal displacement reactions
	Metals and Acids assessment	
	Cells revisited	<ul style="list-style-type: none"> • Electron and light microscopes • Plant, animal and specialised cells • Inside bacteria • Enzymes and nutrition • Enzyme action • Enzyme activity • Transporting substances
Cells revisited assessment		
Autumn 2	Energy	<ul style="list-style-type: none"> • Food and fuels • Energy adds up • Energy stores and transfers • Energy efficiency • Energy and temperature • Energy transfers: particles • Energy transfers: radiation • Stored energy • Resources: now renewable • Resources: Renewable • Work, energy and machines
	Energy assessment	
Spring 1	Ecosystems	<ul style="list-style-type: none"> • Food chains and food webs • Disruption of food chains • Ecosystems • Abiotic factors and communities • Biotic factors and communities • Parasitism and mutualism • Biodiversity and humans • Preserving biodiversity
	Ecosystems assessment	
	Separation techniques	<ul style="list-style-type: none"> • States of matter and changes of state revisited • Mixtures • Solutions • Solubility • Filtration and crystallisation • Paper chromatography • Distillation • Drinking water

Spring 2	Separation technique assessment	
	Periodic table	<ul style="list-style-type: none"> • Metals and non metals • Structure of the atom • Atomic number and mass number • Isotopes • Atomic number and periodic table • Groups and periods • Electron configuration • The elements of group 1 • The elements of group 7 • The elements of group 0
	Periodic table assessment	
Summer 1	Revision for end of year /Key stage 3 test	<ul style="list-style-type: none"> • Metals and acids • Cells revisited • Energy • Ecosystems • Separation techniques • Periodic table • Year 7 topic content • Year 8 topic content
Summer 2	End of Year 9/ End of Key Stage 3 Test	
	Extra Unit Health and Disease	<ul style="list-style-type: none"> • A hidden world • Under attack • Stopping the spread • Self defence • Beating infections –Vaccines • Beating infections – Antibiotics • COVID 19
	Investigation Skills	<ul style="list-style-type: none"> • Practical planning, • Carrying out investigations, • Analysis and conclusions • Evaluations
	Project Work	<ul style="list-style-type: none"> • Independent learning project • Research skills • Demonstration of communication skills

Topics are covered in different orders by staff to avoid issues with practical requisitions and classes being shared between staff

A summary lesson, quality of written communication 6 mark question practice and a knowledge test accompany each topic.