

Year 8 Science Curriculum Grid

Term	Unit	Content covered within unit
Autumn 1	Reactions	<ul style="list-style-type: none"> • Chemical reactions • Word equations • Burning fuels • Thermal decomposition • Conservation of mass • Exothermic and endothermic
	Space	<ul style="list-style-type: none"> • The night sky • The solar system • The earth • The moon
Autumn 2	Health and lifestyle	<ul style="list-style-type: none"> • Nutrients • Food tests • Unhealthy diets • Digestive system • Bacteria and enzymes • Drugs • Alcohol • Smoking
	Complete Topics Reactions, Health and lifestyle and space prior to Assessment 1	
	Assessment 1	
	Photosynthesis and Respiration	<ul style="list-style-type: none"> • Photosynthesis • Leaves • Plant minerals • Chemosynthesis • Aerobic respiration • Anaerobic respiration
Spring 1	The Earth and resources	<ul style="list-style-type: none"> • The earth • The atmosphere • Sedimentary rock • Igneous and metamorphic rock • The rock cycle • The carbon cycle • Climate change • Recycling Extracting metals • ceramics • Polymers • Composites
	Electricity and magnetism	<ul style="list-style-type: none"> • Charging up • Circuits and current • Potential difference • Series and parallel • Resistance • Magnets and magnetic fields • Electromagnets • Using electromagnets

Spring 2	Complete Topics The Earth and Resources, Material cycles, Electricity and Magnetism prior to Assessment 2	
	Assessment 2	
	Adaptation and inheritance	<ul style="list-style-type: none"> • Competition and adaptation • Adapting to change • Variations • Continuous and discontinuous • Inheritance • Natural selection • Extinction
	Pressure	<ul style="list-style-type: none"> • Pressure in gases • Pressure in liquids • Pressure in solids • Turning forces
Summer 1	Motion	<ul style="list-style-type: none"> • Vectors and scalars • Speed • Distance/ time graphs • Acceleration • Velocity/ time graphs
	Complete Topics Adaptation and inheritance, Pressure and Motion prior to Assessment 3	
	Assessment 3	
Summer 2	Revision for end of year test	<ul style="list-style-type: none"> • Working scientifically • Reactions • Health and lifestyle • Space • The Earth and resources • Material cycles • Electricity and magnetism • Adaptation and inheritance • Pressure • Motion • Year 7 topic content
	End of Year 8 Test	
	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.

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