

	Term	Topic	Learning Outcomes	Assessment
Year 7	Term 1	Biology, Chemistry and Physics Baseline testing	To know about: ✓ Assessment of pupils prior learning	Baseline test
		Biology Working scientifically	To know about: ✓ Asking scientific questions ✓ Planning investigations ✓ Recording data ✓ Analysing data ✓ Evaluating data	End of topic test
		Chemistry Particles and their behaviour	To know about: ✓ The particle model ✓ States of matter ✓ Melting and freezing ✓ Boiling ✓ Sublimation and deposition ✓ Diffusion ✓ Gas pressure	End of topic test
		Physics Forces	To know about: ✓ Introduction to forces ✓ Squashing and stretching ✓ Drag forces and friction ✓ Forces at a distance ✓ Balanced and unbalanced forces	End of topic test

	Term	Topic	Learning Outcomes	Assessment
Year 7	Term 2	Biology Cells	To know about: <ul style="list-style-type: none"> ✓ Observing living cells ✓ Plant and animal cells ✓ Specialised cells ✓ Movement of substances ✓ Unicellular organisms 	End of topic test
		Chemistry Elements, mixtures and compounds	To know about: <ul style="list-style-type: none"> ✓ Elements ✓ Atoms ✓ Compounds ✓ Chemical formulae ✓ Balancing equations 	End of topic test
		Physics Sound	To know about: <ul style="list-style-type: none"> ✓ Waves ✓ Sound and energy transfer ✓ Loudness and pitch ✓ Detecting sound ✓ Echoes and ultrasound 	End of topic test

	Term	Topic	Learning Outcomes	Assessment
Year 7	Term 3	Biology Structure and function of body systems	To know about: <ul style="list-style-type: none"> ✓ Levels of organisation ✓ Gas exchange ✓ Breathing ✓ Skeleton ✓ Movement: Joints ✓ Movement: Muscles 	End of topic test
		Chemistry Reactions	To know about: <ul style="list-style-type: none"> ✓ Chemical reactions ✓ Word equations ✓ Burning fuels ✓ Thermal decomposition ✓ Conservation of mass ✓ Exothermic and endothermic reactions 	End of topic test
		Physics Light	To know about: <ul style="list-style-type: none"> ✓ Light ✓ Reflection ✓ Refraction ✓ The eye and the camera ✓ Colour 	End of topic test

End of year assessment

This will include all topics covered

Misconceptions will be addressed as part of the end of year assessment review process

	Term	Topic	Learning Outcomes	Assessment
Year 8	Term 1	Biology Reproduction	To know about: <ul style="list-style-type: none"> ✓ Adolescence ✓ Reproductive systems ✓ Fertilisation and implantation ✓ Development of the foetus ✓ The menstrual cycle ✓ Flowers and pollination ✓ Fertilisation and germination ✓ Seed dispersal 	End of topic test
		Chemistry Acids and alkalis	To know about: <ul style="list-style-type: none"> ✓ Acids and alkalis ✓ Indicators and pH ✓ Neutralisation ✓ Making and naming salts 	End of topic test
		Physics Space	To know about: <ul style="list-style-type: none"> ✓ The night sky ✓ The Solar System ✓ The Earth ✓ The Moon 	End of topic test

Term	Topic	Learning Outcomes	Assessment	
Year 8	Term 2	<p>Biology</p> <p>Healthy lifestyles</p>	<p>To know about:</p> <ul style="list-style-type: none"> ✓ Nutrients ✓ Food tests ✓ Unhealthy diets ✓ Digestive system ✓ Bacteria and enzymes in digestion ✓ Drugs ✓ Alcohol ✓ Smoking 	<p>End of topic test</p>
		<p>Chemistry</p> <p>The Periodic Table</p>	<p>To know about:</p> <ul style="list-style-type: none"> ✓ Metals and non-metals ✓ Groups and periods ✓ The group 1 elements ✓ The group 7 elements ✓ The group 0 elements 	<p>End of topic test</p>
		<p>Physics</p> <p>Electricity and magnetism</p>	<p>To know about:</p> <ul style="list-style-type: none"> ✓ Charging up ✓ Circuits and current ✓ Potential difference ✓ Series and parallel circuits ✓ Resistance ✓ Magnets and magnetic fields ✓ Electromagnets ✓ Using electromagnets 	<p>End of topic test</p>

	Term	Topic	Learning Outcomes	Assessment
Year 8	Term 3	Biology Ecosystems	To know about: <ul style="list-style-type: none"> ✓ Photosynthesis ✓ Leaves ✓ Plant minerals ✓ Chemosynthesis ✓ Aerobic respiration ✓ Anaerobic respiration ✓ Food chains and food webs ✓ Ecosystems 	End of topic test
		Chemistry The Periodic Table	To know about: <ul style="list-style-type: none"> ✓ Mixtures ✓ Solutions ✓ Solubility ✓ Filtration ✓ Evaporation and distillation ✓ Chromatography 	End of topic test
		Physics Energy	To know about: <ul style="list-style-type: none"> ✓ Food and fuels ✓ The law of conservation of energy ✓ Temperature and changes of state ✓ Energy transfers: Conduction, convection and radiation ✓ Energy resources ✓ Energy and power ✓ Work and machines 	End of topic test

End of year assessment

This will include all topics covered in Year 7 and 8

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	Term	Topic	Learning Outcomes	Assessment
Year 9	Term 1	Biology Adaptations and inheritance	To know about: <ul style="list-style-type: none"> ✓ Competition and adaptation ✓ Adapting to change ✓ Variation ✓ Continuous and discontinuous ✓ Inheritance ✓ Natural selection ✓ Extinction 	End of topic test
		Chemistry Metals and acid	To know about: <ul style="list-style-type: none"> ✓ Acids and metals ✓ Metals and oxygen ✓ Metals and water ✓ Metal displacement reactions ✓ Extracting metals ✓ Ceramics ✓ Polymers ✓ Composites 	End of topic test
		Physics Motion and pressure	To know about: <ul style="list-style-type: none"> ✓ Speed ✓ Motion and graphs ✓ Pressure and gases ✓ Pressure in liquids ✓ Pressure on solids ✓ Turning forces 	End of topic test

Term	Topic	Learning Outcomes	Assessment
Year 9 Term 2	Biology Key Concepts	To know about: ✓ The Key Stage 3 Biology key concepts	Baseline test
	Chemistry The Earth	To know about: ✓ The Earth and its atmosphere ✓ Sedimentary rocks ✓ Igneous and metamorphic rocks ✓ The rock cycle ✓ The carbon cycle ✓ Climate change ✓ Recycling	End of topic test
	Physics Key Concepts	To know about: ✓ The Key Stage 3 Physics key concepts	Baseline test
	Chemistry Key Concepts	To know about: ✓ The Key Stage 3 Chemistry key concepts	Baseline test

End of year assessment

This will include topics covered in Year 7, 8 and 9

Misconceptions will be addressed as part of the end of year assessment review process