

Science

Curriculum Sequence

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	<p>What makes a good scientist?</p> <p>What is the universe made out of?</p> <p>Are all living organisms made from the same thing?</p>	<p>What state of matter is jelly?</p> <p>What started the first infectious disease?</p>	<p>Why does ice float?</p> <p>What is water?</p>	<p>How do organisms stay alive?</p> <p>What happens in an explosion?</p>	<p>Why do we need energy?</p> <p>How do indigestion tablets work?</p>	<p>Do plants reproduce differently to animals? why do birds not get electrocuted when sat on pylon cables?</p>
8	<p>What makes a good scientist?</p> <p>Will we always be able to live on Earth?</p> <p>Is alternative energy the same across the world?</p>	<p>How do plants sustain live on Earth?</p> <p>Why is it difficult to breathe on top of a mountain?</p>	<p>Do poor diets lead to preventable diseases?</p> <p>Why do we organise substances?</p> <p>Do speed cameras reduce road casualties?</p>	<p>Can all mixtures be separated?</p> <p>Are we really the right way up?</p>	<p>Are we born this way?</p> <p>Can one substance change another?</p>	<p>How does my electric shower work?</p> <p>How do organisms interact with each other and their environment?</p>

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9 Biology	Cell structure and transport	Cell division Organisation and the digestive system	Organising animals and plants Communicable diseases	Communicable diseases Preventing and treating diseases	Preventing and treating diseases	Non-communicable diseases in humans
9 Chemistry	Atomic structure	Periodic table	Rates of reaction	Crude oil and fuels Organic reactions (separates only) Chemical analysis	Polymers (separates only) Chemical analysis	The Earth's atmosphere
9 Physics	Conservation and dissipation of energy	Energy transfer by heating	Energy resources Electric circuits	Electricity in the home	Molecules and matter	Radioactivity
10 Biology	Photosynthesis	Respiration	The human nervous system Hormonal control in humans and plants Homeostasis in action	Hormonal control in humans and plants Homeostasis in action (separate only) Reproduction	Reproduction Variation and evolution	Variation and evolution

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			(separate only)			
10 Chemistry	The Earth's resources Using our resources (separates only)	Using our resources (separates only) Structure and bonding	Structure and bonding Chemical calculations	Chemical calculations Chemical changes	Chemical Changes Electrolysis	Electrolysis
10 Physics	Forces in balance	Motion	Force and motion	Force and pressure (Separates only) Wave properties	Electromagnetic e Waves Light (separates only)	Electromagnetism
11 Biology	Genetics and evolution Adaptations and interdependence	Organising an ecosystem	Biodiversity and ecosystems	Revision	Revision	
11 Chemistry	Electrolysis	Revision	Revision	Revision	Revision	
11 Physics	Space (separates only)	Revision	Revision	Revision	Revision	