





	Biology									Chemistry				Earth and Space				Physics				General Science		Templates	
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	<b>Cells</b>	<b>Plant Cells</b>	<b>Stem Cells</b>	<b>Classification</b>	<b>Kingdoms</b>	<b>Food Chains and Food Webs</b>	<b>Invasive Species</b>	<b>Body Systems</b>	<b>Reproduction</b>	<b>Healthy Eating</b>	<b>Mixtures</b>	<b>Separation techniques</b>	<b>States of Matter</b>	<b>Physical &amp; Chemical Change</b>	<b>Elements and Compounds</b>	<b>Our Place In Space</b>	<b>Tides</b>	<b>Resources</b>	<b>The Water Cycle</b>	<b>Active Earth</b>	<b>Minerals</b>	<b>Forces</b>	<b>Levers and Gears</b>	<b>Inclined Planes</b>	<b>Energy Transformation</b>	<b>Heat</b>	<b>Light</b>	<b>Sound</b>	<b>Introduction to Science</b>	<b>Science News</b>	<b>Engineering Challenges</b>	<b>Science Investigations</b>
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Interactions between organisms can be described in terms of food chains and food webs and can be affected by human activity VCSSU093						☑	☑																										
Multi-cellular organisms contain systems of organs carrying out specialised functions that enable them to survive and reproduce VCSSU094								☑	☑	☑																							

Chemistry																															
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Science understanding																															
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Mixtures, including solutions, contain a combination of pure substances that can be separated using a range of techniques VCSSU095												☑	☑																				
Properties of the different states of matter can be explained in terms of the motion and arrangement of particles VCSSU096													☑																				
Differences between elements, compounds and mixtures can be described at a particle level VCSSU097												☑			☑																		
Chemical change involves substances reacting to form new substances VCSSU098														☑																			

Earth and Space																															
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Science understanding																															
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Predictable phenomena on Earth, including seasons and eclipses, are caused by the relative positions of the sun, Earth and the moon VCSSU099																☑	☑																
Some of Earth’s resources are renewable, including water that cycles through the environment, but others are non-renewable VCSSU100																		☑	☑														
Water is an important resource that cycles through the environment VCSSU101																			☑														
Sedimentary, igneous and metamorphic rocks contain minerals and are formed by processes that occur within Earth over a variety of timescales VCSSU102																				☑	☑												

Physics																															
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Science understanding																															
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Change to an object’s motion is caused by unbalanced forces acting on the object; Earth’s gravity pulls objects towards the centre of Earth VCSSU103																							☑	☑	☑							
Energy appears in different forms, including movement (kinetic energy), heat and potential energy, and energy transformations and transfers cause change within systems VCSSU104																									☑	☑						

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	Biology									Chemistry				Earth and Space				Physics				General Science		Templates										
	Cells	Plant Cells	Stem Cells	Classification	Kingdoms	Food Chains and Food Webs	Invasive Species	Body Systems	Reproduction	Healthy Eating	Mixtures	Separation techniques	States of Matter	Physical & Chemical Change	Elements and Compounds	Our Place In Space	Tides	Resources	The Water Cycle	Active Earth	Minerals	Forces	Levers and Gears	Inclined Planes	Energy Transformation	Heat	Light	Sound	Introduction to Science	Science News	Engineering Challenges	Science Investigations		
Light can form images using the reflective feature of curved mirrors and the refractive feature of lenses, and can disperse to produce a spectrum which is part of a larger spectrum of radiation <a href="#">VCSSU105</a>																											<input checked="" type="checkbox"/>							
The properties of sound can be explained by a wave model <a href="#">VCSSU106</a>																												<input checked="" type="checkbox"/>						





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Biology									Chemistry						Earth and Space					Physics						Science News	Templates				
The Nervous System	The Endocrine System	The Immune System	Microbiomes	Simple Inheritance	Genetics	Evolution	Human Evolution	Ecosystems	Atoms	Chemical Reactions	Acids and Bases	Reactions and Energy	Reaction Types	Chemical Bonds	Metals	Active Earth	Earthquakes	Earth Systems	The Universe	Comets	Mass extinctions	Heat	Radiation	Electrical circuits	Magnets	Energy Conservation	Kinematics	Newtons Laws of Motion	Science News	Engineering Challenges	Science Investigations

## Level 9

### Science as a human endeavour

Scientific understanding, including models and theories, is contestable and is refined over time through a process of review by the scientific community <a href="#">VCSSU114</a>			✓	✓		✓		✓	✓	✓		✓			✓	✓	✓	✓	✓	✓												✓		
Advances in scientific understanding often rely on developments in technology and technological advances are often linked to scientific discoveries <a href="#">VCSSU115</a>			✓			✓		✓	✓	✓				✓		✓		✓	✓			✓	✓		✓		✓	✓			✓			
The values and needs of contemporary society can influence the focus of scientific research <a href="#">VCSSU116</a>	✓	✓	✓	✓				✓		✓	✓	✓			✓	✓	✓	✓				✓	✓	✓			✓	✓			✓			

### Science inquiry skills

Formulate questions or hypotheses that can be investigated scientifically <a href="#">VCSIS134</a>			✓					✓		✓	✓	✓	✓	✓	✓	✓		✓			✓	✓		✓	✓		✓	✓					✓
Independently plan, select and use appropriate investigation types, including fieldwork and laboratory experimentation, to collect reliable data, assess risk and address ethical issues associated with these investigation types <a href="#">VCSIS135</a>			✓					✓		✓	✓	✓			✓	✓	✓	✓				✓	✓	✓		✓	✓		✓	✓			✓
Select and use appropriate equipment and technologies to systematically collect and record accurate and reliable data, and use repeat trials to improve accuracy, precision and reliability <a href="#">VCSIS136</a>			✓					✓		✓	✓		✓	✓	✓	✓	✓					✓	✓	✓		✓	✓		✓	✓			✓
Construct and use a range of representations, including graphs, keys, models and formulas, to record and summarise data from students' own investigations and secondary sources, to represent qualitative and quantitative patterns or relationships, and distinguish between discrete and continuous data <a href="#">VCSIS137</a>			✓					✓	✓	✓	✓	✓			✓	✓	✓					✓			✓		✓	✓					✓
Analyse patterns and trends in data, including describing relationships between variables, identifying inconsistencies in data and sources of uncertainty, and drawing conclusions that are consistent with evidence <a href="#">VCSIS138</a>	✓	✓	✓					✓	✓	✓	✓	✓				✓	✓	✓	✓			✓		✓	✓		✓	✓					✓
Use knowledge of scientific concepts to evaluate investigation conclusions, including assessing the approaches used to solve problems, critically analysing the validity of information obtained from primary and secondary sources, suggesting possible alternative explanations and describing specific ways to improve the quality of data <a href="#">VCSIS139</a>	✓		✓	✓	✓		✓	✓		✓					✓	✓	✓				✓	✓		✓	✓		✓	✓					✓
Communicate scientific ideas and information for a particular purpose, including constructing evidence-based arguments and using appropriate scientific language, conventions and representations <a href="#">VCSIS140</a>		✓	✓			✓	✓	✓	✓		✓	✓				✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓				✓

## Biology

### Science understanding



Biology								Chemistry						Earth and Space					Physics						Science News	Templates	
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	The Nervous System	The Endocrine System	The Immune System	Microbiomes	Simple Inheritance	Genetics	Evolution	Human Evolution	Ecosystems	Atoms	Chemical Reactions	Acids and Bases	Reactions and Energy	Reaction Types	Chemical Bonds	Metals	Active Earth	Earthquakes	Earth Systems	The Universe	Comets	Mass extinctions	Heat	Radiation	Electrical circuits	Magnets	Energy Conservation	Kinematics	Newtons Laws of Motion	Science News	Engineering Challenges	Science Investigations
Multi-cellular organisms rely on coordinated and interdependent internal systems to respond to changes to their environment <a href="#">VCSSU117</a>	✓	✓	✓	✓																												
An animal's response to a stimulus is coordinated by its central nervous system (brain and spinal cord); neurons transmit electrical impulses and are connected by synapses <a href="#">VCSSU118</a>	✓																															
Transmission of heritable characteristics from one generation to the next involves DNA and genes <a href="#">VCSSU119</a>					✓	✓																										
The theory of evolution by natural selection explains the diversity of living things and is supported by a range of scientific evidence <a href="#">VCSSU120</a>							✓	✓																								
Ecosystems consist of communities of interdependent organisms and abiotic components of the environment; matter and energy flow through these systems <a href="#">VCSSU121</a>									✓										✓													

Chemistry																																	
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Science understanding																																	
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All matter is made of atoms that are composed of protons, neutrons and electrons; natural radioactivity arises from the decay of nuclei in atoms <a href="#">VCSSU122</a>											✓	✓																						
The atomic structure and properties of elements are used to organise them in the Periodic Table <a href="#">VCSSU123</a>																✓	✓																	
Chemical reactions involve rearranging atoms to form new substances; during a chemical reaction mass is not created or destroyed <a href="#">VCSSU124</a>									✓		✓	✓	✓	✓																				
Different types of chemical reactions are used to produce a range of products and can occur at different rates; chemical reactions may be represented by balanced chemical equations <a href="#">VCSSU125</a>											✓	✓	✓	✓																				
Chemical reactions, including combustion and the reactions of acids, are important in both non-living and living systems and involve energy transfer <a href="#">VCSSU126</a>									✓		✓	✓	✓	✓																				

Earth and Space																																	
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The theory of plate tectonics explains global patterns of geological activity and continental movement <a href="#">VCSSU127</a>																		✓	✓															
Global systems, including the carbon cycle, rely on interactions involving the atmosphere, biosphere, hydrosphere and lithosphere <a href="#">VCSSU128</a>																				✓														
The universe contains features including galaxies, stars and solar systems, and the Big Bang theory can be used to explain the origin of the universe <a href="#">VCSSU129</a>																					✓	✓	✓											

Physics																																	
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Electric circuits can be designed for diverse purposes using different components; the operation of circuits can be explained by the concepts of voltage and current <a href="#">VCSSU130</a>																									✓									
The interaction of magnets can be explained by a field model; magnets are used in the generation of electricity and the operation of motors <a href="#">VCSSU131</a>																										✓								
Energy flow in Earth's atmosphere can be explained by the processes of heat transfer <a href="#">VCSSU132</a>																			✓				✓											
The description and explanation of the motion of objects involves the interaction of forces and the exchange of energy and can be described and predicted using the laws of physics <a href="#">VCSSU133</a>																											✓	✓	✓					







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The interaction of magnets can be explained by a field model; magnets are used in the generation of electricity and the operation of motors VCSSU131																											✓								
Energy flow in Earth's atmosphere can be explained by the processes of heat transfer VCSSU132																				✓					✓										
The description and explanation of the motion of objects involves the interaction of forces and the exchange of energy and can be described and predicted using the laws of physics VCSSU133																												✓	✓	✓					