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Biology				Chemistry	Earth and Space				Physics				General Science		Templates		
Classification	Kingdoms	Food Chains and Food Webs	Invasive Species	Mixtures	Separation Techniques	Our Place In Space	Tides	Resources	The Water Cycle	Forces	Levers and Gears	Inclined Planes	Magnetism	Introduction to Science	Science News	Engineering Challenges	Science Investigations

Year 7

Science as a human endeavour

Scientific knowledge has changed people's understanding of the world and is refined as new evidence becomes available ACSHE119	✓	✓	✓				✓				✓	✓		✓	✓		
Science knowledge can develop through collaboration across the disciplines of science and the contributions of people from a range of cultures ACSHE223				✓	✓	✓	✓		✓	✓	✓			✓	✓		
Solutions to contemporary issues that are found using science and technology, may impact on other areas of society and may involve ethical considerations ACSHE120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		
People use science understanding and skills in their occupations and these have influenced the development of practices in areas of human activity ACSHE121						✓				✓				✓	✓		

Science inquiry skills

Identify questions and problems that can be investigated scientifically and make predictions based on scientific knowledge ACSIS124	✓			✓			✓		✓	✓	✓		✓	✓			✓
Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed ACSIS125				✓	✓		✓		✓	✓	✓	✓	✓	✓			✓

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School Curriculum and Standards Authority

Biology				Chemistry	Earth and Space				Physics				General Science		Templates	
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Classification	Kingdoms	Food Chains and Food Webs	Invasive Species	Mixtures	Separation Techniques	Our Place In Space	Tides	Resources	The Water Cycle	Forces	Levers and Gears	Inclined Planes	Magnetism	Introduction to Science	Science News	Engineering Challenges	Science Investigations
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Interactions between organisms, including the effects of human activities can be represented by food chains and food webs
ACSSU112

		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
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Chemistry

Science understanding

Mixtures, including solutions, contain a combination of pure substances that can be separated using a range of techniques
ACSSU113

				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
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Earth and Space

Science understanding

Predictable phenomena on Earth, including seasons and eclipses, are caused by the relative positions of the sun, Earth and the moon
ACSSU115

						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
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Some of Earth's resources are renewable but others are non-renewable
ACSSU116

								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
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Water is an important resource that cycles through the environment
ACSSU222

								<input checked="" type="checkbox"/>									
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Physics

Science understanding

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Change to an object's motion is caused by unbalanced forces, including Earth's gravitational attraction, acting on the object

[ACSSU117](#)

Biology				Chemistry	Earth and Space				Physics				General Science		Templates		
Classification	Kingdoms	Food Chains and Food Webs	Invasive Species	Mixtures	Separation Techniques	Our Place In Space	Tides	Resources	The Water Cycle	Forces	Levers and Gears	Inclined Planes	Magnetism	Introduction to Science	Science News	Engineering Challenges	Science Investigations
						⏪				⏩	⏩	⏩	⏩				

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	Biology						Chemistry			Earth and Space	Physics	Science News	Templates		
	Cells	Plant Cells	Stem Cells	Reproduction	Healthy Eating	Body Systems	States of Matter	Elements and Compounds	Physical & Chemical Change	Minerals	Active Earth	Energy Transformation	Science News	Engineering Challenges	Science Investigations
Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed ACSIS140	✓	✓				✓	✓	✓	✓	✓	✓	✓			✓
Measure and control variables, select equipment appropriate to the task and collect data with accuracy ACSIS141							✓	✓		✓	✓				✓
Construct and use a range of representations, including graphs, keys and models to represent and analyse patterns or relationships in data using digital technologies as appropriate ACSIS144	✓					✓	✓			✓	✓				✓
Summarise data, from students' own investigations and secondary sources, and use scientific understanding to identify relationships and draw conclusions based on evidence ACSIS145	✓					✓	✓	✓	✓	✓	✓				✓
Reflect on scientific investigations including evaluating the quality of the data collected, and identifying improvements ACSIS146							✓		✓	✓	✓				✓
Use scientific knowledge and findings from investigations to evaluate claims based on evidence ACSIS148	✓			✓		✓	✓	✓		✓					✓
Communicate ideas, findings and evidence based solutions to problems using scientific language, and representations, using digital technologies as appropriate ACSIS234	✓			✓		✓	✓	✓	✓	✓					✓

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Biology						Chemistry			Earth and Space		Physics	Science News	Templates	
<u>Cells</u>	<u>Plant Cells</u>	<u>Stem Cells</u>	<u>Reproduction</u>	<u>Healthy Eating</u>	<u>Body Systems</u>	<u>States of Matter</u>	<u>Elements and Compounds</u>	<u>Physical & Chemical Change</u>	<u>Minerals</u>	<u>Active Earth</u>	<u>Energy Transformation</u>	<u>Science News</u>	<u>Engineering Challenges</u>	<u>Science Investigations</u>

Biology

Science understanding

Cells are the basic units of living things; they have specialised structures and functions	ACSSU149	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-cellular organisms contain systems of organs carrying out specialised functions that enable them to survive and reproduce	ACSSU150	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Chemistry

Science understanding

Properties of the different states of matter can be explained in terms of the motion and arrangement of particles	ACSSU151	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Differences between elements, compounds and mixtures can be described at a particle level	ACSSU152	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical change involves substances reacting to form new substances	ACSSU225	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Earth and Space

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	Biology						Chemistry			Earth and Space		Physics	Science News	Templates	
	Cells	Plant Cells	Stem Cells	Reproduction	Healthy Eating	Body Systems	States of Matter	Elements and Compounds	Physical & Chemical Change	Minerals	Active Earth	Energy Transformation	Science News	Engineering Challenges	Science Investigations
Science understanding															
Sedimentary, igneous and metamorphic rocks contain minerals and are formed by processes that occur within Earth over a variety of timescales <i>ACSSU153</i>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Physics															
Science understanding															
Energy appears in different forms, including movement (kinetic energy), heat and potential energy, and energy transformations and transfers cause change within systems <i>ACSSU155</i>												<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	Ecosystems	Atoms	Chemical Reactions	Acids and Bases	Reactions and Energy	Active Earth	Earthquakes	Light	Sound	Heat	Radiation	Electrical Circuits	Magnetism	Science News	Engineering Challenges	Science Investigations

Year 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	ACHSE157		✓	✓		✓	✓		✓		✓	✓	✓					✓		
Advances in scientific understanding often rely on developments in technology and technological advances are often linked to scientific discoveries	ACHSE158			✓		✓	✓			✓					✓		✓	✓		
People use scientific knowledge to evaluate whether they accept claims, explanations or predictions, and advances in science can affect people's lives, including generating new career opportunities	ACHSE160	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Values and needs of contemporary society can influence the focus of scientific research	ACHSE228	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓		

Science inquiry skills

Formulate questions or hypotheses that can be investigated scientifically	ACSI164			✓		✓	✓		✓	✓			✓	✓		✓	✓			✓
Plan, select and use appropriate investigation types, including field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods	ACSI165			✓		✓	✓	✓	✓	✓			✓		✓	✓				✓
Select and use appropriate equipment, including digital technologies, to collect and record data systematically and accurately	ACSI166			✓		✓	✓		✓			✓	✓		✓	✓				✓

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	Biology					Chemistry				Earth and Space	Physics					Science News	Templates	
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	The Nervous System	The Endocrine System	The Immune System	Microbiomes	Ecosystems	Atoms	Chemical Reactions	Acids and Bases	Reactions and Energy	Active Earth	Earthquakes	Light	Sound	Heat	Radiation	Electrical Circuits	Magnetism	Science News	Engineering Challenges	Science Investigations
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Analyse patterns and trends in data, including describing relationships between variables and identifying inconsistencies <i>ACSI169</i>	✓	✓	✓		✓	✓	✓	✓	✓	✓			✓	✓		✓	✓			✓
Use knowledge of scientific concepts to draw conclusions that are consistent with evidence <i>ACSI170</i>	✓		✓		✓	✓	✓	✓	✓	✓			✓	✓	✓		✓			✓
Evaluate conclusions, including identifying sources of uncertainty and possible alternative explanations, and describe specific ways to improve the quality of the data <i>ACSI171</i>	✓		✓		✓		✓			✓				✓						✓
Critically analyse the validity of information in primary and secondary sources and evaluate the approaches used to solve problems <i>ACSI172</i>	✓		✓	✓	✓				✓	✓		✓	✓	✓						✓
Communicate scientific ideas and information for a particular purpose, including constructing evidence-based arguments and using appropriate scientific language, conventions and representations <i>ACSI174</i>		✓	✓		✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓			✓

Biology

Science understanding

Multi-cellular organisms rely on coordinated and interdependent internal systems to respond to changes to their environment <i>ACSSU175</i>	✓	✓	✓	✓																
Ecosystems consist of communities of interdependent organisms and abiotic components of the environment; matter and energy flow through these systems <i>ACSSU176</i>					✓															

Chemistry

Science understanding

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School Curriculum
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	Biology					Chemistry				Earth and Space		Physics						Science News	Templates	
	The Nervous System	The Endocrine System	The Immune System	Microbiomes	Ecosystems	Atoms	Chemical Reactions	Acids and Bases	Reactions and Energy	Active Earth	Earthquakes	Light	Sound	Heat	Radiation	Electrical Circuits	Magnetism	Science News	Engineering Challenges	Science Investigations
All matter is made of atoms that are composed of protons, neutrons and electrons; natural radioactivity arises from the decay of nuclei in atoms ACSSU177						✓														
Chemical reactions involve rearranging atoms to form new substances; during a chemical reaction mass is not created or destroyed ACSSU178					✓		✓		✓											
Chemical reactions, including combustion and the reactions of acids, are important in both non-living and living systems and involve energy transfer ACSSU179					✓			✓	✓											
Earth and Space																				
Science understanding																				
The theory of plate tectonics explains global patterns of geological activity and continental movement ACSSU180											✓	✓								
Physics																				
Science understanding																				
Energy transfer through different mediums can be explained using wave and particle models ACSSU182											✓	✓	✓	✓	✓	✓	✓			

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Biology				Chemistry			Earth and Space				Physics			Science News	STEM Resources	
Simple Inheritance	Genetics	Evolution	Human Evolution	Chemical Bonds	Metals	Reaction Types	The Universe	Comets	Earth Systems	Mass Extinctions	Energy Conservation	Kinematics	Newton's Laws of Motion	Science News	Engineering Challenges	Science Investigations

Year 10

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	ACHSE191	✓			✓	✓			✓	✓	✓	✓			✓		
Advances in scientific understanding often rely on developments in technology and technological advances are often linked to scientific discoveries	ACHSE192		✓		✓		✓		✓				✓	✓	✓		
People use scientific knowledge to evaluate whether they accept claims, explanations or predictions, and advances in science can affect people's lives, including generating new career opportunities	ACHSE194		✓				✓	✓	✓		✓	✓	□	✓			
Values and needs of contemporary society can influence the focus of scientific research	ACHSE230						✓		✓					✓			

Science inquiry skills

Formulate questions or hypotheses that can be investigated scientifically	ACSI198						✓				✓	✓					✓
Plan, select and use appropriate investigation types, including field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods	ACSI199								✓		✓	✓					✓

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Biology				Chemistry			Earth and Space				Physics			Science News	STEM Resources
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Simple Inheritance	Genetics	Evolution	Human Evolution	Chemical Bonds	Metals	Reaction Types	The Universe	Comets	Earth Systems	Mass Extinctions	Energy Conservation	Kinematics	Newton's Laws of Motion	Science News	Engineering Challenges	Science Investigations
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The theory of evolution by natural selection explains the diversity of living things and is supported by a range of scientific evidence ACSSU185			✓	✓												
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Chemistry

Science understanding

The atomic structure and properties of elements are used to organise them in the Periodic Table ACSSU186					✓											
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Different types of chemical reactions are used to produce a range of products and can occur at different rates ACSSU187						✓	✓									
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Earth and Space

Science understanding

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 ACSSU188								✓	✓							
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Global systems, including the carbon cycle, rely on interactions involving the biosphere, lithosphere, hydrosphere and atmosphere ACSSU189										✓	✓					
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Physics

Science understanding

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		Biology				Chemistry			Earth and Space			Physics			Science News	STEM Resources	
		<u>Simple Inheritance</u>	<u>Genetics</u>	<u>Evolution</u>	<u>Human Evolution</u>	<u>Chemical Bonds</u>	<u>Metals</u>	<u>Reaction Types</u>	<u>The Universe</u>	<u>Comets</u>	<u>Earth Systems</u>	<u>Mass Extinctions</u>	<u>Energy Conservation</u>	<u>Kinematics</u>	<u>Newton's Laws of Motion</u>	<u>Science News</u>	<u>Engineering Challenges</u>
Energy conservation in a system can be explained by describing energy transfers and transformations	ACSSU190											☑		☑			
The motion of objects can be described and predicted using the laws of physics	ACSSU229											☑	☑	☑			