



Alignment with Australian Curriculum

All three strands of the Australian Curriculum: Science are embedded in the unit.

The table below lists sub-strands, their content and the aligned lesson within the unit.

Strand	Sub-strand	Code	Content descriptions	Lesson
Science Understanding (SU)	Chemical sciences	ACSSU225	Chemical change involves substances reacting to form new substances	2, 5
	Physical sciences	ACSSU155	Energy appears in different forms including movement (kinetic energy), heat and potential energy, and causes change within systems	5, 7
Science as a Human Endeavour (SHE)	Use and influence of science	ACSHE135	Science and technology contribute to finding solutions to a range of contemporary issues; these solutions may impact other areas of society and involve ethical considerations	1 - 9
		ACSHE136	Science understanding influences the development of practices in areas of human activity such as industry, agriculture and marine and terrestrial resource management	
		ACSHE227	People use understanding and skills from across the disciplines of science in their occupations	
Science Inquiry Skills (SIS)	Questioning and predicting	AC SIS139	Identify questions and problems that can be investigated scientifically and make predictions based on scientific knowledge	1, 2, 3, 5, 7, 8
	Planning and conducting	AC SIS140	Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed	1, 2, 5, 6, 7, 8
		AC SIS141	In fair tests, measure and control variables and select equipment to collect data with accuracy appropriate to the task	
	Processing and analysing data and information	AC SIS144	Construct and use a range of representations, including graphs, keys and models, to represent and analyse patterns or relationships, including using digital technologies as appropriate	1, 2, 3, 5, 6, 7, 8
AC SIS145		Summarise data, from students' own investigations and secondary sources, and use scientific understanding to identify relationships and draw conclusions		

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Strand	Sub-strand	Code	Content descriptions	Lesson
Science Inquiry Skills (SIS) continued	Evaluating	ACSIS146	Reflect on the method used to investigate a question or solve a problem, including evaluating the quality of the data collected, and identify improvements to the method	2 - 9
		ACSIS234	Use scientific knowledge and findings from investigations to evaluate claims	
	Communicating	ACSIS148	Communicate ideas, findings and solutions to problems using scientific language and representations using digital technologies as appropriate	1 - 9

Interrelationship of the Science strands: sub-strands covered in this unit are in bold

YEAR 8



Science Understanding	Science as a Human Endeavour	Science Inquiry Skills
Biological sciences Chemical sciences Earth and space sciences Physical sciences	Nature and development of science Use and influence of science	Questioning and predicting Planning and conducting Processing & analysing data & information Evaluating Communicating

