Year 9
SCIENCE

AUSTRALIAN
MARINE DEBRIS INITIATIVE

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)	Biological sciences	ACSSU175	Multi-cellular organisms rely on coordinated and interdependent internal systems to respond to changes in their environment	5, 6
		ACSSU176	Ecosystems consist of communities of interdependent organisms and abiotic components of the environment; matter and energy flow through these systems	
Science as a Human Endeavour (SHE)	Nature and development of science	ACSHE157	Scientific understanding, including models and theories, are contestable and are refined over time through a process of review by the scientific community	2, 3, 5, 6, 9
	Use and influence of science	ACSHE160	People can use scientific knowledge to evaluate whether they should accept claims, explanations or predictions	1 - 9
		ACSHE228	The values and needs of contemporary society can influence the focus of scientific research	
Science Inquiry Skills (SIS)	Questioning and predicting	ACSIS164	Formulate questions or hypotheses that can be investigated scientifically	1, 2, 4, 5, 6, 7, 8
	Planning and conducting	ACSIS165	Plan, select and use appropriate investigation methods, including field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods	2, 3, 5, 6, 7, 8
		ACSIS166	Select and use appropriate equipment, including digital technologies, to systematically and accurately collect and record data	
	Processing and analysing data and information	ACSIS170	Use knowledge of scientific concepts to draw conclusions that are consistent with evidence	1, 2, 3, 5, 6, 7, 8

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Strand	Sub-strand	Code	Content descriptions	Lesson
Science Inquiry Skills (SIS) continued	Evaluating	ACSIS172	Critically analyse the validity of information in secondary sources and evaluate the approaches used to solve problems	1, 2, 3, 5, 6, 7, 8, 9
	Communicating	ACSIS174	Communicate scientific ideas and information for a particular purpose, including constructing evidence-based argument and using appropriate scientific language, conventions and representations	1 - 9

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

YEAR 9

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**