## Holloways Beach Environmental Education Centre – Cabin Competition



Holloways Beach EEC upholds the focus of "Every Student Succeeding" by providing students with the opportunity to engage with content identified from the Australian Curriculum in Science, General Capabilities and Cross Curriculum Priorities. The activities highlight a range of year level standards and descriptions that enables the offered curriculum to be differentiated according to student need.			
EVERY STUDENT SUCCEEDING: Every student succeeding is the shared vision of Queensland state schools. This strategy underpins regional and school planning to ensure every stude receives the support needed to belong to the school community, engage purposefully in learning and experience academic success.	nt		
AUSTRALIAN CURRICULUM: Students have the opportunity to engage with Achievement Standards and Content Descriptions identified from the Australian Curriculum in Science, Gener Capabilities and Cross Curriculum Priorities NB: Schools need to ensure that the Holloways Beach EEC is aware of the differentiation requirements of students who attend.	al		
<ul> <li>Year ACHIEVEMENT STANDARD</li> <li>By the end of Year 5, students classify substances according to their observable properties and behaviours. They explain everyday phenomena associated with the transfer of light. They describe th key features of our solar system. They analyse how the form of living things enables them to function in their environments. Students discuss how scientific developments have affected people's live help us solve problems and how science knowledge develops from many people's contributions.</li> <li>Students follow instructions to pose questions for investigation and predict the effect of changing variables when planning an investigation. They use equipment in ways that are safe and improve the accuracy of their observations. Students construct tables and graphs to organise data and identify patterns in the data. They compare patterns in their data with predictions when suggesting explanations. They describe ways to improve the fairness of their investigations, and communicate their ideas and findings using multimodal text</li> </ul>	e <mark>S</mark> ,		
<ul> <li>Content Descriptions</li> <li>Science as Human Endeavour:</li> <li>Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena and reflects historical and cultural contributions (ACSHE081)</li> <li>Scientific knowledge is used to solve problems and inform personal and community decisions (ACSHE083)</li> <li>Science Skills:</li> <li><u>Questioning and predicting</u></li> <li>With guidance, pose clarifying questions and make predictions about scientific investigations (ACSIS231)</li> </ul>			
<ul> <li>Identify, plan and apply the elements of scientific investigations to answer questions and solve problems using equipment and materials safely and identifying potential risks (ACSIS086)</li> <li>Decide variables to be changed and measured in fair tests, and observe measure and record data with accuracy using digital technologies as appropriate (ACSIS087)</li> <li><u>Processing and analysing data and information</u></li> <li>Construct and use a range of representations, including tables and graphs, to represent and describe observations, patterns or relationships in data using digital technologies as appropriate (ACSIS090).</li> </ul>			
(AC313070).	_		



	<u>Evaluating</u>
	<ul> <li>Reflect on and suggest improvements to scientific investigations (ACSIS091)</li> </ul>
	<u>Communicating</u>
	<ul> <li>Communicate ideas, explanations and processes using scientific representations in a variety of ways, including multi-modal texts (ACSIS093)</li> </ul>
	General Capabilities: Literacy, Numeracy, Personal & Social Capability,
	Critical & Creative Thinking,
	<ul> <li>Inquiring, identifying and exploring and organising information and ideas.</li> </ul>
	<ul> <li>Generating ideas, possibilities and actions.</li> </ul>
	<ul> <li>Reflecting on thinking and processes.</li> </ul>
	Analysing, synthesising and evaluating reasoning and procedures.
	Cross Curricular Priorities: Sustainability
Year	ACHIEVEMENT STANDARD
6	By the end of Year 6, students compare and classify different types of observable changes to materials. They analyse requirements for the transfer of electricity and describe how energy can be
	transformed from one form to another when generating electricity. They explain how natural events cause rapid change to Earth's surface. They describe and predict the effect of environmental
	changes on individual living things. Students explain how scientific knowledge helps us to solve problems and inform decisions and identify historical and cultural contributions.
	Students follow procedures to develop investigable questions and design investigations into simple cause-and-effect relationships. They identify variables to be changed and measured and describe
	potential safety risks when planning methods. They collect, organise and interpret their data, identifying where improvements to their methods or research could improve the data. They describe
	and analyse relationships in data using appropriate representations and construct multimodal texts to communicate ideas, methods and findings.
	Content Descriptions
	Science Understanding:
	Biological Sciences:
	The growth and survival of living things are affected by the physical conditions of their environment (ACSSU094).
	Physical Sciences:
	Electrical energy can be transferred and transformed in electrical circuits and can be generated from a range of sources (ACSSU097)
	Science as Human Endeavour:
	• Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena and reflects historical and cultural contributions (Year 6 ACSHE098).
	<ul> <li>Scientific knowledge used to solve problems and inform personal and community decisions (ACSHE100)</li> </ul>
	Science Skills:
	Questioning and predicting
	With guidance, pose clarifying guestions and make predictions about scientific investigations (ACSIS232)
	Planning and conducting
	<ul> <li>Identify, plan and apply the elements of scientific investigations to answer questions and solve problems using equipment and materials safely and identifying potential risks Year (6 ACSIS103).</li> </ul>



	• Decide variables to be changed and measured in fair tests, and observe measure and record data with accuracy using digital technologies as appropriate (ACSIS104). Processing and analysing data and information
	<ul> <li>Construct and use a range of representations, including tables and graphs, to represent and describe observations, patterns or relationships in data using digital technologies as appropriate</li> </ul>
	(ACSIS107)
	Compare data with predictions and use as evidence in developing explanations (ACSIS221)
	<u>Evaluating</u>
	Reflect on and suggest improvements to scientific investigations (ACSIS108)
	Communicating
	Communicate ideas, explanations and processes using scientific representations in a variety of ways, including multi-modal texts (ACSIS110)
	Constal Canabilities, Literary Numerony Descend & Social Canability
	General Capabilities: Literacy, Numeracy, Personal & Social Capability Critical & Creative Thinking,
	Inquiring, identifying and exploring and organising information and ideas.
	<ul> <li>Generating ideas, possibilities and actions.</li> </ul>
	<ul> <li>Reflecting on thinking and processes.</li> </ul>
	<ul> <li>Analysing, synthesising and evaluating reasoning and procedures.</li> </ul>
	Cross Curricular Priorities: Sustainability
Year	ACHIEVEMENT STANDARD
7	By the end of Year 7, students describe techniques to separate pure substances from mixtures. They represent and predict the effects of unbalanced forces, including Earth's gravity, on motion. They
	explain how the relative positions of Earth, the sun and moon affect phenomena on Earth. They analyse how the sustainable use of resources depends on the way they are formed and cycle through
	Earth systems. They predict the effect of human and environmental changes on interactions between organisms and classify and organise diverse organisms based on observable differences.
	Students describe situations where scientific knowledge from different science disciplines and diverse cultures has been used to solve a real-world problem. They explain possible implications of the solution for different groups in society.
	Students identify guestions that can be investigated scientifically. They plan fair experimental methods, identifying variables to be changed and measured. They select equipment that improves
	fairness and accuracy and describe how they considered safety. Students draw on evidence to support their conclusions. They summarise data from different sources, describe trends and refer to the
	guality of their data when suggesting improvements to their methods. They communicate their ideas, methods and findings using scientific language and appropriate representations.
	Science Understanding:
	Earth & Space Sciences
	• Some of Earth's resources are renewable, including water that cycles through the environment, but others are non-renewable (ACSSU116).
	Science as Human Endeavour:
	People use science understanding and skills in their occupations and these have influenced the development of practices in areas of human activity (Year 7 ACSHE121)
	Science Skills Questioning and predicting
	<ul> <li>Identify questions and problems that can be investigated scientifically and make predictions based on scientific knowledge (ACSIS124)</li> </ul>
	Planning and conducting



<ul> <li>Meas</li> <li><u>Processing</u></li> <li>Const</li> <li>Summ</li> <li><u>Evaluating</u></li> <li>Reflex</li> <li>Use s</li> <li><u>Communic</u></li> </ul>	ect on scientific investigations including evaluating the quality of the data collected, and identifying improvements (ACSIS131) scientific knowledge and findings from investigations to evaluate claims based on evidence (ACSIS132)
Critical & C Inquir Gene Reflect	Capabilities: Literacy, Numeracy, Personal & Social Capability. <u>Creative Thinking,</u> iring, identifying and exploring and organising information and ideas. erating ideas, possibilities and actions. ecting on thinking and processes. I, synthesising and evaluating reasoning and procedures.
	irricular Priorities: Sustainability