

S.Y5.U1 - Survival in the Australian Marine Environment – Year 5

Students focus on the ways plants and animals survive in the marine environment; exploring adaptations in plants and animals and how their adaptations relate to the environment. The key practical components from **Curriculum into the Classroom - Science Unit 1 Survival in the Australian Environment, lessons 2, 3, 4, 5, 6, 7, 8, 9, 10 & 11** are undertaken at the centre. This program includes an **optional online *Elluminate* lesson 12** focusing on wader bird adaptations and a **Centre staff classroom visit** providing the stimulus and resources to create a marine based response to the C2C unit's assessment item **lessons 13-16**.



Day Visit program

YEAR 5 Science – Australian Curriculum and C2C Mapping					
ACARA	Science as a Human Endeavour	Nature and developing science Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena (ACSHE081) Important contributions to the advancement of science have been made by people from a range of cultures (ACSHE082) Using and Influencing science Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples' lives (ACSHE083) Scientific knowledge is used to inform personal and community decisions (ACSHE217)			
	Science Inquiry Skills	Questioning and Predicting With guidance, pose questions to clarify practical problems or inform a scientific investigation, and predict what the findings of an investigation might be (AC SIS231) Planning and Conducting With guidance, plan appropriate investigation methods to answer questions or solve problems (AC SIS086) Decide which variable should be changed and measured in fair tests and accurately observe, measure and record data, using digital technologies as appropriate (AC SIS087) Use equipment and materials safely, identifying potential risks (AC SIS088) Processing and Analysing data and Information 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 (AC SIS090) Compare data with predictions and use as evidence in developing explanations (AC SIS218) Evaluating Suggest improvements to the methods used to investigate a question or solve a problem (AC SIS091) Communicating Communicate ideas, explanations and processes in a variety of ways, including multi-modal texts (AC SIS093)			
	Science Understandings	Biological Science Living things have structural features and adaptations that help them to survive in their environment (AC SSU043)	Chemical Science Solids, liquids and gases have different observable properties and behave in different ways (AC SSU077)	Earth and Space Science The Earth is part of a system of planets orbiting around a star (the sun) (AC SSU078)	Physical Science Light from a source forms shadows and can be absorbed, reflected and refracted (AC SSU080)
	C2C	Survival in the Australian Environment	Matter Matters	Our Place in the Solar System	Now you See it
	Nudgee Beach EEC programs	Survival in the Australian Marine Environment			
ACARA	General Capabilities	Literacy • Comprehending texts through listening, viewing and reading • Composing texts through speaking, writing and creating • Text knowledge • Grammar knowledge • Word knowledge • Visual knowledge Numeracy • Calculating and estimating • Recognising and using patterns and relationships • Using fractions, decimals, percentages, ratios and rates • Interpreting and drawing conclusions from statistical information • Using measurement Information and communication technology capability Queensland student ICT expectations Creating with ICT • Plan, create and refine digital products for specific purposes in a range of KLA-related contexts • Combine their own text and or images with imported materials to create products • Design and create a multimedia presentation combining text, animation, graphics and sound Operating with ICT • Use a digital camera to capture images • Use and understand common choices within the file menu of different applications Critical and creative thinking • Inquiring - identifying, exploring and clarifying information • Generating innovative ideas and possibilities • Reflecting on thinking, actions and processes • Analysing, synthesising and evaluating information Personal and social capability • Self-awareness • Self-management • Social awareness • Social management Intercultural understanding • Recognising • Interacting • Respect			
	Cross Curriculum Priorities	Aboriginal and Torres Strait Islander histories and cultures Students will explore how Aboriginal peoples and Torres Strait Islander peoples utilise knowledge of adaptations in plants and animals. Sustainability Students will explore how farmers consider environmental impacts of their industry when making decisions about farming methods			