

S.Y4.U2 - Growing in the Marine Environment - Year 4

A previsit to the classroom teaches students about Mud Crabs and their unique life cycle. It covers the key practical components from **Curriculum into the Classroom - Science Unit 2 Ready, set, grow! lessons 1, 2, 4 & 5**. A visit to the Centre, which includes an exploration of the mangroves and the beach, focuses on vulnerable and endangered species and the life cycle of the turtle. It supports **lessons 5, 6, 10 & 12** providing the stimulus and resources to create a marine based response to the C2C unit's research assessment item.



Day Visit program with optional Half Day Pre-visit extension

YEAR 4 Science – Australian Curriculum and C2C Mapping					
ACARA	Science as a Human Endeavour	Nature and development of science <ul style="list-style-type: none"> Science involves making predictions and describing patterns and relationships (ACSHE061) Use and influence of science <ul style="list-style-type: none"> Science knowledge helps people to understand the effect of their actions (ACSHE062) 			
	Science Inquiry Skills	Communicating <ul style="list-style-type: none"> Represent and communicate ideas and findings in a variety of ways such as diagrams, physical representations and simple reports (ACIS071) Evaluating <ul style="list-style-type: none"> Reflect on the investigation; including whether a test was fair or not (ACIS069) Communicating <ul style="list-style-type: none"> Represent and communicate ideas and findings in a variety of ways such as diagrams, physical representations and simple reports (ACIS071) Planning and conducting <ul style="list-style-type: none"> Safely use appropriate materials, tools or equipment to make and record observations, using formal measurements and digital technologies as appropriate (ACIS066) Suggest ways to plan and conduct investigations to find answers to questions (ACIS065) Processing and analysing data and information <ul style="list-style-type: none"> Compare results with predictions, suggesting possible reasons for findings (ACIS216) Use a range of methods including tables and simple column graphs to represent data and to identify patterns and trends (ACIS068) Questioning and predicting <ul style="list-style-type: none"> With guidance, identify questions in familiar contexts that can be investigated scientifically and predict what might happen based on prior knowledge (ACIS064) 			
	Science Understandings	Biological Science Biological sciences • Living things have life cycles (ACSSU072) • Living things, including plants and animals, depend on each other and the environment to survive (ACSSU073)	Chemical Science • Natural and processed materials have a range of physical properties; These properties can influence their use (ACSSU074)	Earth and Space Science • Earth's surface changes over time as a result of natural processes and human activity (ACSSU075)	Physical Science • Forces can be exerted by one object on another through direct contact or from a distance (ACSSU076)
C2C	Ready Set Grow	Properties Matter	Here today gone tomorrow	Fast Forces	
Nudgee Beach EEC programs		Growing in the Marine Environment			
ACARA	General Capabilities	Literacy <ul style="list-style-type: none"> Comprehending texts through listening, viewing and reading Composing texts through speaking, writing, and creating Text knowledge Word knowledge Visual knowledge Numeracy <ul style="list-style-type: none"> Calculating and estimating Recognising and using patterns and relationships Interpreting and drawing conclusions from statistical information Using measurement Information and communication technology capability Queensland student ICT expectations <ul style="list-style-type: none"> Inquiring with ICT Creating with ICT Critical and creative thinking <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Self-awareness Self-management Social awareness Social management Ethical behaviour <ul style="list-style-type: none"> Understanding ethical concepts and issues Reflecting on personal ethics and decision making Intercultural understanding <ul style="list-style-type: none"> Recognising Respect 			
ACARA	Cross Curriculum Priorities	Aboriginal and Torres Strait Islander histories and cultures Students will: <ul style="list-style-type: none"> understand that Aboriginal peoples and Torres Strait Islander peoples have different ways of grouping things explore Aboriginal peoples and Torres Strait Islander peoples use of observations. understand that Aboriginal peoples and Torres Strait Islander peoples have particular ways of knowing the world investigate the ways in which traditional knowledge and western scientific knowledge can be complementary. Sustainability Students will: <ul style="list-style-type: none"> Develop analysis skills to examine relationships between living and non-living things. Understand the importance of using science to predict possible effects of human and other activity Appreciate that science provides the basis of decision making. Understand the importance of caring for the environment they are studying and learn ways of caring. 			