

# Curriculum Links - Tangalooma EcoMarines

## AUSTRALIAN CURRICULUM

The Tangalooma EcoMarines Primary School Program can effectively be integrated into the Australian Schooling Curriculum. As an example, a school that ran the program within their grade 4's created this document as an outline and hopefully it can be of use.

### Year 4 Science

#### SCIENCE UNDERSTANDING

Biological Science	Earth & Space Sciences
Living things have life cycles ( <a href="#">ACSSU072</a> ) Living things depend on each other and the environment to survive ( <a href="#">ACSSU073</a> )	Earth's surface changes over time as a result of natural processes and human activity ( <a href="#">ACSSU075</a> )

#### SCIENCE AS A HUMAN ENDEAVOUR

Nature and Development of Science	Use and Influence of Science
Science involves making predictions and describing patterns and relationships ( <a href="#">ACSHE061</a> )	Science knowledge helps people to understand the effect of their actions ( <a href="#">ACSHE062</a> )

#### SCIENCE ENQUIRY SKILLS

Processing & analysing data & information	Communicating
Use a range of methods including tables and simple column graphs to represent data and to identify patterns and trends ( <a href="#">AC SIS068</a> ) Compare results with predictions, suggesting possible reasons for findings ( <a href="#">AC SIS216</a> )	Represent and communicate observations, ideas and findings using formal and informal representations ( <a href="#">AC SIS071</a> )

### Year 4 Geography

#### GEOGRAPHICAL UNDERSTANDING

The earth's environment sustains all life	Concepts for Geographical Understanding
The types of natural vegetation and the significance of vegetation to the environment and to people ( <a href="#">ACHGK021</a> ) The importance of environments to animals and people, and different views on how they can be protected ( <a href="#">ACHGK022</a> )	Place Space Environment Interconnection

<p>The custodial responsibility Aboriginal and Torres Strait Islander Peoples have for Country/Place, and how this influences their past and present views about the use of resources (<a href="#">ACHGK023</a>)</p> <p>The natural resources provided by the environment, and different views on how they could be used sustainably (<a href="#">ACHGK024</a>)</p> <p>The sustainable management of waste from production and consumption (<a href="#">ACHGK025</a>)</p>	<p>Sustainability</p>
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## GEOGRAPHICAL ENQUIRY SKILLS

### Processing & analysing data & information

Collecting, recording, representing & evaluating data  
 Interpreting, analysing and concluding  
 Communicating  
 Reflecting and Responding

## QUEENSLAND STATE SCHOOLS - LINKS

### Year 4 Units of Work

#### SCIENCE

Science Unit 1: Here Today, Gone Tomorrow – Erosion: examine erosion problems on Moreton Island – during EcoMarines’ Whirlpool event, solutions are discussed and children see firsthand examples of how erosion is being managed in a coastal environment

Science Unit 2: Ready, Set, Grow– Lifecycles and Habitats: examine relationships between living things and their dependence on the environment. Changes to the environment both natural and human are examined and the impacts they have – over fishing, rubbish in waterways, plastics – write a report on a threatened species in Moreton bay – identify actions being taken to protect this species

#### GEOGRAPHY

##### Geography Unit 1: Exploring Environments and Places

How does the environment support the lives of people and other living things?

##### Geography Unit 2: Using Places More sustainably

How do different views about the environment influence approaches to sustainability?

How can people use places and environments more sustainably?

Rubbish audit of school – How are we disposing of waste – audit recycling, reusing, composting

Action Plan to better manage waste

## DIGITAL TECHNOLOGY

### Digital Technologies Unit 2: What's Your Waste Footprint?

investigate the problem of lunch rubbish by collecting and managing data to create information

Represent the data collected in Geography using Excel and Infographics.

## **EXAMPLES OF INTEGRATION THROUGHOUT WHOLE SCHOOL**

**EcoMarines** is a school Priority – in unit planning all teachers consider ways to embed the EcoMarine Values in all units.

**In Other Year levels** – EcoMarines' ambassadors visit classrooms to give information and act as a resource for Units of Work.

Year 1 : Science - Living Adventure – Healthy/Unhealthy Habitats

Geography – My changing World – Caring for Places, sustainability

Year 2: Science – “Save Planet Earth” – using Earth's resources

HASS – Connection to Places

Year 4: Visual Arts – Clay work Vessel depicting an animal or plant from Moreton Bay

**Adaptation of Units** of work to contextualise to our local environment and Moreton Bay and to reinforce concepts learnt through EcoMarines Program

Year 6 – English: persuasive writing Unit – changed assessment to “Should Dolphins be kept in Captivity” response to Newspaper article

Year 5 – Science: Behavioural Adaptations – examining adaptations for plants, animals on Moreton Island and in the Bay.

**Leadership Program** – this is the initial stepping stone

**Partnerships** with parents and wider community