



“Empowering Extraordinary Minds”

Overview

Nemo Nurturers
Program

Year 4

The Boyne Island Environmental Education Centre boasts a beautiful reef aquarium with a focus on clownfish. Nemo Nurturers brings the reef to the Centre and provides a great opportunity for students to engage in.

The program is divided into two hands-on, student centered sessions.

Session 1 – The students are called upon to assist the Principal with his presentation on the lifecycle of Clownfish. Students observe the various reef tanks and spy Nemo, Dory and other friends from the reef. Students also engage in a virtual tour of the reef using VR goggles and screen-print a reusable calico bag to send a sustainable message.

Session 2 - Students are provided with hands on opportunities to discover the secret life of plankton and help the lost plankton find out what species he is. Using a variety of microscopes and other tools, students identify and interact with the most important organism in the world. Students are then involved in a STEM challenge to construct models of zooplankton and phytoplankton and how they sit in the water column.

Curriculum Intent

Science

Science Understanding

Living things have life cycles ([ACSSU072](#))

Living things depend on each other and the environment to survive ([ACSSU073](#))

Science as a Human Endeavour

Science involves making predictions and describing patterns and relationships ([ACSHE061](#))

Science knowledge helps people to understand the effect of their actions ([ACSHE062](#))

Science Inquiry Skills

With guidance, identify questions in familiar contexts that can be investigated scientifically and make predictions based on prior knowledge ([AC SIS064](#))

With guidance, plan and conduct scientific investigations to find answers to questions, considering the safe use of appropriate materials and equipment ([AC SIS065](#))

Consider the elements of fair tests and use formal measurements and digital technologies as appropriate, to make and record observations accurately ([AC SIS066](#))

General capabilities

- Literacy
- Numeracy
- Critical and Creative Thinking
- Information and Communication Technology (ICT) Capability

Cross-curriculum priorities

- Sustainability

Itinerary

Learning Intentions:

WHAT... are we learning?

- The lifecycle of a clownfish
- Living things depend on each other to survive.

WHY ... are we learning this?

Our living world is fascinating and the clownfish lifecycle is no exception. You get to come face to face with these wonders of the reef. Our reef is in trouble and it needs your help to conserve and look after it.

HOW ... will you know you're successful?

- Identify the stages of a clownfish lifecycle
- Understand the role of plankton in the marine ecosystem
- Predict what would happen if there was no plankton
- List actions to save the reef

*Suggested Timetable of the day (subject to change)

EMPOWERING EXTRAORDINARY MINDS	TIME	ACTIVITIES
	8:45am	Welcome & Induction Australian Curriculum focus: WHAT WHY HOW Pre-test data collection
	9:15	Morning Tea (+)
	9:30	Session 1 – Clownfish Explore the reef aquarium Learn about the lifecycle of the clownfish Virtual tour of a reef using VR goggles Screen print calico bag
	11:15	Lunch(+)
	12.00	Session 2 – Plankton Discover the secret world of plankton Observe and identify plankton using microscopes Design and make a model of Zooplankton and Phytoplankton in the water column
	1.45	Revisit Australian Curriculum focus: WHAT WHY HOW Review Goal Setting & complete Post-test BIEEC feedback
	2.15	Students depart (+)
	*Denotes – activity taken by BIEEC staff with visiting school staff support # Denotes – activity taken by visiting school staff with BIEEC staff support + Denotes – activity taken by visiting school staff	

Students and adults will need:

- Closed in shoes
- Sun-safe clothing and hat
- Sunscreen and insect repellent already applied
- Water bottle
- Morning tea and lunch (litter-free)

Litter-free Lunch:

We encourage students and staff to pack a litter-free lunch. Everything in it can be re-used, composted or recycled. Drinks are brought in refillable bottles.