

Ocean Caretakers

Marine Education Programme for Years 3-8

Location: NZ Marine Studies Centre, 185 Hatchery Road, Portobello, Dunedin

Programme Description

Why are humans concerned about plastics? How does it affect our moana (ocean)?

Investigate the local seashore through a Litter Intelligence survey and get up close to the creatures that live along our coastline.

Learn how macro and micro plastic pollution can affect different species.

Learn what you can do to be kaitiaki (guardians) of the coastlines and how we prevent plastic from ending up in the moana.

Learning Outcomes

Students will:

- Gain a deeper understanding of the environment that sea creatures live in.
- Be able to identify local species in English and Te Reo Māori.
- Gain a deeper understanding of plastic pollution and how it affects the environment.
- Learn how marine scientists study the environment and conduct a survey.
- Gain an understanding and appreciation of marine life, the marine environment and what it means to be a marine scientist.

Curriculum Links

Nature of Science (NoS): Understanding about Science, Investigating in Science, Communicating in Science, Participating and Contributing.

Science: Living World - Life processes, Ecology, and Evolution.

Other Curriculum Areas: Social Studies, English, Health.

This programme can be adapted to fit the specific needs of your students, just talk to one of our educators upon booking about customising the itinerary and/or delivery for your class.

Programme Length: 2 hours

Programme Cost: \$9.00 per student (GST excl.), additional hours \$4.50 per student per hour.

Extra Information: The time and date of this programme is dependent on low tide.

As we will be working in a University of Otago Laboratory, students must wear closed toed shoes (no sandals or crocs).

Bring suitable clothing for outdoors - rain or shine (e.g. hats, sunscreen, or warm jackets). RAMS forms are available on request.



Example Itinerary

10 min introductory presentation covering:

- Introduction to the NZMSC, H&S, seashore etiquette

10 min explanation of Litter Intelligence

- Learn about this project, how the survey and audit procedures are conducted and the equipment involved

60 min Litter Intelligence survey and seashore investigation

- On the shore to complete a Litter Intelligence survey and audit
- Explore what is living on our local shore

30 min exploration of the NZMSC

- Looking for different creatures in the aquarium and touch tanks
- Learning about their different adaptations, habitats and how they are affected by plastic pollution

10 min wrap up

Option to have morning tea or lunch at the NZMSC before or after the programme.

Resources available to support the programme can be found at www.marine.ac.nz and mm2.net.nz

Ideas for learning in class before your visit:

- Look at the NZMSC Rocky Shore Guides and become familiar with identifying some of the different creatures you may see on your visit.
- Look at the Litter Intelligence website: www.litterintelligence.org
- Inquiry into plastic pollution in Aotearoa and worldwide.

Ideas for learning in class after your visit:

- Inquiry into impacts of plastic pollution on different marine species.
- Conduct a plastic audit in your house and classroom. Come up with ideas for how you can cut down on plastic.
- Brainstorm ways that we can help protect the life on our local shores, take action around your school and home. You could even do a clean up of your local environment!

NZMSC Contact

Hannah Drury, NZMSC Primary and Early Childhood Educator

Email: hannah.drury@otago.ac.nz

Phone: 03 479 5843



NEW ZEALAND
MARINE STUDIES CENTRE

The NZ Marine Studies Centre is part of the Marine Science Department, University of Otago.
This programme is supported by the Ministry of Education's EOTC service.

See www.marine.ac.nz for more programmes and resources.