

Aotearoa Ocean Histories

Marine Education Programme for Years 5-8

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

Programme Description

An introduction to important kaimoana (seafood) and taoka (treasured) marine species in Otago.

Go on a Peninsula Headland walk to learn about how kaimoana was collected with different native plants and throughout different seasons.

Get up close to some local marine species and learn about their habitats and adaptations.

Extension: A seashore visit to look at intertidal species in their wild environment.

Learning Outcomes

Students will:

- Understand why Otago is a hotspot for marine life, and how the abundance of kaimoana species aided the settlement of Māori in the region.
- Identify local marine species in English and Te Reo Māori.
- Learn how different species were collected with different techniques and throughout different seasons.
- Understand different fisheries management techniques.
- Gain an appreciation of marine creatures, the marine environment, and marine science.

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: Aotearoa Histories, Social Studies, English, Health, Te Reo Māori.

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 Peninsula Headland walk is weather dependent. 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

15 min introductory presentation covering:

- Introduction to the NZMSC and H&S
- Introduction to Otago biodiversity - ocean currents, historical and current species, kaimoana species and settlement of the area

30 min exploration of the NZMSC

- Looking for different kaimoana species in the aquarium and touch tanks

45 min Peninsula Headland walk

- Walking in groups out to the headland, stopping at information signs along the way, pointing out important plant species
- Students fill in a worksheet with information gathered

20 min presentation

- Learning about traditional fishing techniques, tuaki bed management, rāhui and sustainable management
- Linking to plant uses and holistic approach to environmental management

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.
- Introduce students to the concepts of biodiversity, fisheries management, kaimoana, kaitiaki
- Group discussion about collecting kaimoana - who goes fishing? where do you go? what do you catch?

Ideas for learning in class after your visit:

- Inquiry into local and national marine protected areas and rāhui
- 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

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The NZ Marine Studies Centre is part of the Marine Science Department, University of Otago.
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See www.marine.ac.nz for more programmes and resources.