

TOGETHER FOR OUR MOANA - WE'RE SHAPING OUR FUTURE

CORE LESSON 2 - OUR MOANA IN AOTEAROA

Overview

Learn about the ocean area that Aotearoa is responsible for. (NZ's EEZ - Exclusive Economic Zone)

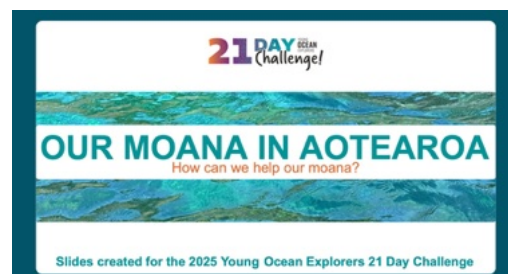
NZ CURRICULUM LINKS:

Learning areas:	Achievement objectives:
<p>Te Ao Maori <i>te reo (language), tikanga (customs and traditional values)</i></p>	<p>Te reo Māori is indigenous to Aotearoa New Zealand. It is a taonga recognised under the Treaty of Waitangi, a primary source of our nation's self-knowledge and identity, and an official language. By understanding and using te reo Māori, New Zealanders become more aware of the role played by the indigenous language and culture in defining and asserting our point of difference in the wider world.</p>
<p>Aotearoa NZ Histories <i>Tūrangawaewae me te kaitiakitanga - place and environment</i></p>	<p>Think about how people use and affect the environment.</p>
<p>Literacy</p>	<p>Communication, Listening, Reading, Viewing</p>

Learning areas:	Achievement objectives:
Maths	Investigate Percentages Size comparison
Science	Investigating in science <ul style="list-style-type: none"> • Students will extend their experiences and personal explanations of the natural world through exploration, play, asking questions, and discussing simple models. Earth systems <ul style="list-style-type: none"> • Students will explore and describe natural features and resources. • Students will appreciate that water, air, rocks and soil, and life forms make up our planet and recognise that these are also Earth's resources. Interacting systems <ul style="list-style-type: none"> • Students will describe how natural features are changed and resources affected by natural events and human actions.

Slides of lesson plans

Slides of lesson plans found [HERE](#)



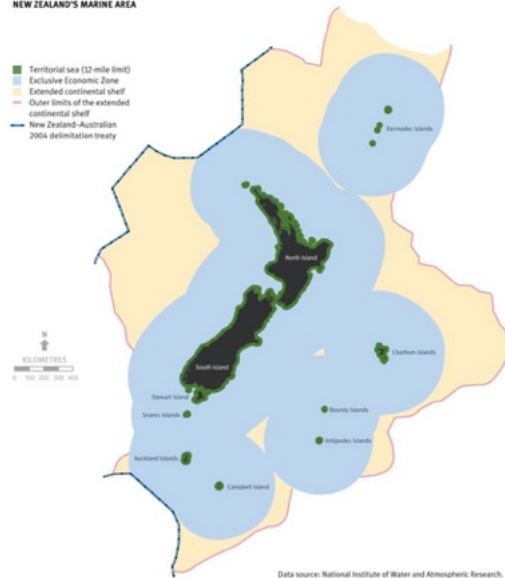
This is an option for teachers to teach and learn with the class on a screen to follow along together.

Background information for teachers:

[NZ's Exclusive Economic Zone - Ministry for the Environment](#)

New Zealand has rights to an area of the continental shelf beyond our EEZ, covering approximately 1.7 million square kilometres. The continental shelf is the area that surrounds a landmass where the sea is relatively shallow compared to the open ocean. It's geologically part of the land and, under international law, a state has exclusive rights over the non-living resources (e.g. minerals) and sedimentary species (e.g. oysters and sponges) in and on the seabed there.

* FIGURE 11.1:
NEW ZEALAND'S MARINE AREA



[Areas that are protected - map and info](#)

Learning intention

Tamariki are learning that Aotearoa / New Zealand is ocean area as well as land, and that the ocean is just as important as the land.

Success criteria

Students can:

- Explain about the area that is NZ - ocean and land.
- Understand the importance of the moana to NZ.

LEARNING SEQUENCE

Based on the Inquiry model



Inspire

Provoke curiosity
and wonder



Explore/Educate

Gather information
Use / apply
learning



Activate

Reflect and act

LESSON PLAN

Teachers are encouraged to choose and adjust activities to suit the learning needs and interests of their tamariki.



Inspire

 Allow approximately 25 mins

FUN FACT - [New Zealand has the 5th largest ocean space on the planet.](#)

- **Watch** the first 20 seconds of [this video by Sylvia Earle](#) - an ocean explorer. "Even if you've never seen the ocean or touched the ocean, the ocean touches you. Every breath you take, every drop of water you drink, is the ocean, it's the ocean." Sylvia Earle



Exploring the Ocean for Sixty Years | Best Job Ever



- The moana / ocean is very important to Aotearoa / New Zealand. **Brainstorm** ideas for why the moana is important for us.
- Many of our ancestors travelled the ocean to get to Aotearoa / NZ. **Watch** this video '[A nation born of sailors](#)'



A Nation Born of Sailors

Video is 2:30 minutes





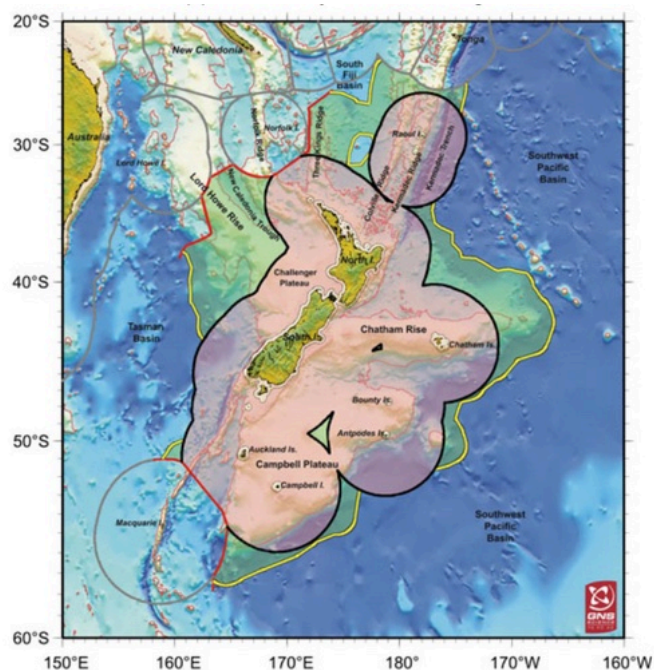
Educate

 Allow approximately 15 mins

Aotearoa is surrounded by the moana / ocean. We are in the Pacific Ocean - Te Moana-nui-a-Kiwa.

NZ's Waters - where are they? [Look at this map.](#)

NZ's ocean is approximately 15 times larger than the land area of NZ



The outer limits of the New Zealand ECS north of New Zealand are subject to the delimitation of boundaries with Fiji, Tonga and France in respect of New Caledonia

- **Maths activity - refer to the New Zealand's ocean size - fractions lesson plan.** Try this paper folding exercise to compare the size of NZ's land to NZ's ocean area.



Educate

 Allow approximately ?? mins

- **Name** some living things that you know live in our ocean near Aotearoa. Make a list - can you name 20 or more?
- **Find out** - how much of our ocean is protected? About 30% of our land is protected in NZ. (only 0.38% of NZ's ocean is fully protected - less than half a percent! Imagine having \$100, but only 38c is protected - people can take and use the rest!) [PICTURE IT - MATHS](#) - draw a 10cm x 10 cm box, and make it into 10 rows of 10 squares. That gives you 100 squares. Colour in almost half of ONE square blue. That is how much of our ocean is protected (0.38%). Now on another 100 grid colour in 30 squares green - that is how much of our land is protected. ([Printable 100 grid here](#)) Do you think enough of our ocean is protected?
- **WATCH** - [Wade Doak's idea](#) that all schools should have access to 'wet libraries' - what do you think of this idea? Discuss what you could learn from the ocean. Make a chart as a class to show your ideas for what you could learn from the moana.

Video is 1:53 mins



Wade Doak



Activate

 *Timing will vary*

- **Brainstorm** ideas for why we should or shouldn't protect more of our ocean.
- **Watch** - [Young Ocean Explorers - Paua, Kina and Rāhui](#). This an inspiring video about the importance of Rāhui and an example of how kids can be involved. *Video is 5:49mins*



DAILY ACTION



MAKE A DIFFERENCE for our moana - pick up at least 1 piece of kirihou / plastic each day. Log how many pieces your class picks up on the Young Ocean Explorers website.

Reminder!

Send in your letters before the 8th of September to: PO Box 228, Warkworth 0941. Then we can take them to Parliament!! We want our collective voices heard about why we need to protect our moana and why it is so important to us! More info in the intro lesson plan.

If your whole class sends in letters, you'll go into the draw to have Riley visit your class and do an awesome presentation to your school!

