21 DAY Challenge!
YOUNG OCEAN EXPLORERS

TOGETHER FOR OUR MOANA – WE'RE SHAPING OUR FUTURE

AIHE / DOLPHINS

Overview

Find out about the dolphins that live in Aotearoa. These playful marine mammals are always exciting to see – let's find out more about them!

NZ CURRICULUM LINKS:

Learning areas:	Achievement objectives:
Te Ao Māori Te reo (language), tikanga (customs and traditional values)	By learning te reo Māori, students are able to participate with understanding and confidence in situations where te reo and tikanga Māori predominate and to integrate language and cultural understandings into their lives ; strengthen Aotearoa New Zealand's identity in the world.
English	Listening, Reading, Viewing
Science	Living world – Develop an understanding of the diversity of life. The emphasis is on the biology of New Zealand, including the sustainability of New Zealand's unique fauna and flora and distinctive ecosystems.
Maths	Measurement – length and time.

Learning intention

Tamariki are learning about some amazing species that live in the Aotearoa.

They will think about conditions that dolphins need to thrive.

Background information for teachers:

8 different species and subspecies of dolphin are found regularly around the New Zealand coast. At least eight further dolphin species and one porpoise have been found here on occasion, some only when they have stranded on our shores.

The most common being the common dolphin, the bottlenose dolphin and the orca (which actually belong to the dolphin family).

Dolphins are known for their impressive swimming abilities, and bottlenose dolphins can reach speeds of over 40km/hour for brief periods, although they usually travel at about 3km/hour.

Dolphin species in NZ
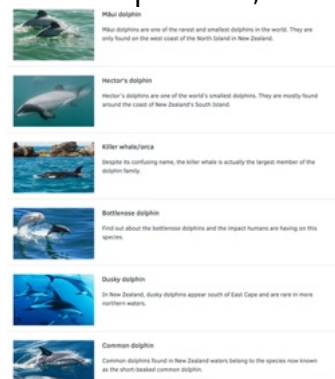
Useful facts about dolphin species from Project Jonah.

Success criteria

Students understand some facts about dolphins and how people can affect them.

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
Aihe / Dolphins

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

Inspire
Allow approximately 10 mins

- **Watch** – this Young Ocean Explorers video – <u>YOE video – how Dad saved a dolphin.</u>

  Video is 2 minutes

- **Discuss** – what are threats to dolphins? Has anyone seen dolphins before? Share stories.

Educate

🕐 *Allow approximately 30 mins*

- **Look** at these dolphin pictures. Which one do you think is the biggest? Which one is the smallest? What similarities and differences do you notice?

- **Go outside** and measure out the different dolphin sizes.
  - Hector / Maui (1.2-1.7m)
  - Dusky (1.6-2m)
  - Common / aihe (1.7-2.4m)
  - Bottlenose / terehu (2.5-4m)
  - Orca (6-7.5m female, 7-9m male)
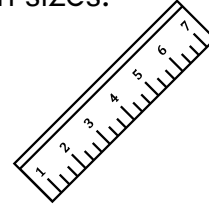
- **Watch**
  - YOE Aihe / dolphins video

    Video is 1:28 minutes

  - YOE maui dolphin adventure

    Riley's big Māui dolphin adventure
    Every year the search for Māui dolphins becomes a festival - join Riley and her brothers as they experience the fun.

    Video is 5:10 minutes

  - YOE swim with dusky dolphins in Kaikōura
    Video is 7:34 minutes

    Riley meets friendly dolphins

- **Read** – 10 facts about dolphins – WWF

- **Just for fun** – join the dolphins underwater in this 360 video from NZ Geographic. Move your mouse to look all around as the video plays. You can even hear the sounds dolphins make!

YOUNG OCEAN EXPLORERS

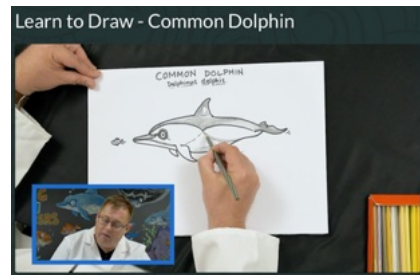## Activate
🕐 *Timing will vary*

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.

- Draw **Learn to draw a common dolphin** with Young Ocean Explorers. Add a dolphin fact to your drawing.

  Video is 12:17 minutes, but allow more time

- **Speed test** – are you as fast as a dolphin? Measure out a 10 metre straight course. Time children to walk the 10 m. If they can do it in 12 seconds that is equivalent to walking 3km/hour (the usual speed of a bottlenose dolphin, and also the average walking speed of a young adult). Can they match a bottlenose dolphin's top speed? If they can complete the 10m course in 1 second that is equivalent to about 40 km/hour – a bottlenose dolphin's top speed, and slightly slower than Usain Bolt's top speed.

- **MATHS EXTENSION** – each child can work out their walking speed and running speed. Speed = distance/time. Here is a useful video explaining how to calculate speed, distance or time.

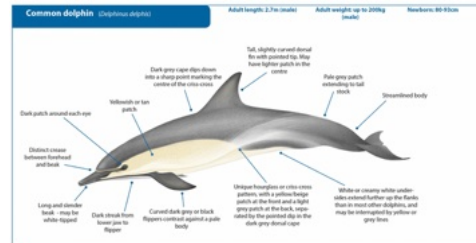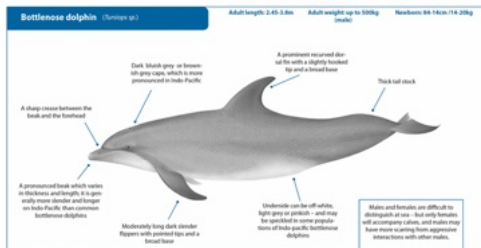**21 DAY Challenge!**

EXTRA LEARNING IDEAS AND RESOURCES

Read

- People and dolphins (te ara)
- Super senses – level 2 connected series

Research

- Find out about the differences between common dolphins and bottlenose dolphins – good facts and diagrams here:
  - Common dolphin – International Whaling Commission
  - Bottlenose dolphin – International Whaling Commission

- Which dolphins can be seen in the Hauraki Gulf? Which other dolphins are found in NZ waters, and where can they be seen?

- What do dolphins eat, how do dolphins sleep, how do dolphins know where they are going? Ask questions that interest you about dolphins, and then try to find the answers. Use the library or a trusted internet resource.

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EXTRA LEARNING IDEAS AND RESOURCES

Watch

- This [short video from Science Learning Hub about dolphins](). Find out the meaning of these words:
    - mammal
    - apex predator
    - vertebrate

Video is 32 seconds

- Watch more videos about dolphins on Young Ocean Explorers website:
    - [Whose skull am I holding?]()
    - [Riley's dolphin adventure]()
    - [Riley's big Māui dolphin adventure]()
    - [Dolphin skin – It's amazing!]()

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!