



## OVERVIEW

The New Zealand Aquaculture Industry leads the world in sustainably producing some of the world's best seafood - greenshell™ mussels, king salmon and pacific oysters. Use these resources to help your

students ask “What does sustainable aquaculture look like in New Zealand and how does it contribute to addressing the world's growing demand for food?”  
Queries? **Email us at [hello@schoolkit.co.nz](mailto:hello@schoolkit.co.nz)**

## ENTRY POINTS

**AQUACULTURE**  
Ministry for Primary Industries  
Manatū Ahu Matua

**Ecology: How are living things suited to their particular habitat?**  
Could Old MacDonald farm the Ocean?

**ESSENTIAL QUESTION**  
Could Old MacDonald farm the Ocean?

**WHAT ARE WE LEARNING?**

- Conducting investigations using the statistical enquiry cycle.
- Recognising that there are processes common to all living things and that these occur in different ways.
- The concept of efficiency through the context of the aquaculture industry.

**TRY THIS WITH**

- Step 4-5.
- Students who have an interest in finding the maths in real world examples.
- Students who love thinking about world issues.

FIND	APPLY	PRODUCE
Summarise Recall Explain	Analyse Differentiate Compare	Compile Refine Justify Elaborate Plan

**SUCCESS CRITERIA**

Students can demonstrate their learning by:

- Creating a slogan that identifies the **essence** of things on any farm.
- Investigating efficiency and documenting predictions based on learning.
- Creating a video that **sustains** **interest** and **engagement** of an individual student created in a class.

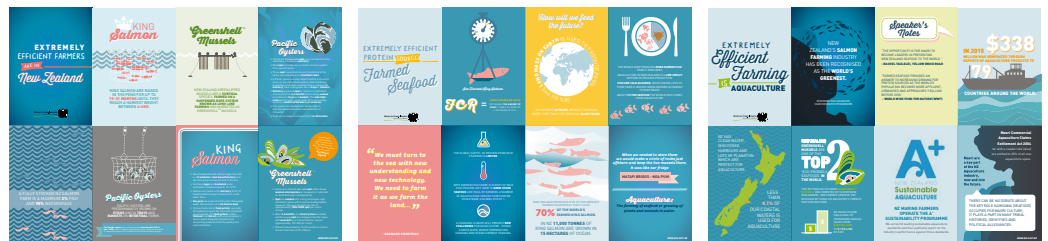
PRINCIPLES	VALUES	KEY COMPETENCIES	LEARNING AREAS	WORD BANK	RESOURCES REQUIRED
Learning to learn Teamwork	Equity Environmental sustainability	Problem solving Communication Participating and contributing	Mathematics and Statistics 1.3	Calculator Efficiency Salinity Feed Conversion Ratio (FCR)	Real to Farm the Ocean Efficiency Salinity Aquaculture

www.mpi.govt.nz

1. Can a Pacific Oyster in an New York restaurant represent the values of an entire iwi?
2. Could Old MacDonald Farm the Ocean?
3. Can New Zealand Aquaculture help save the world?
4. What are the chances of becoming a tween in the salmon world?
5. Who wears the stockings in the aquaculture industry?

## RESOURCES

- 5 Pinterest boards
- 3 Fact Sheets
- 1 Scenario card
- 2 Student Guides
- Industry Experts
- Real life experiences
- Minecraft



### Curriculum Learning Areas

- Social Sciences
- Technology
- Science
- Mathematics

### ICT Platforms



### Word Bank

- Efficiency
- Feed Conversion Ratio (FCR)
- Sustainability
- Selective breeding
- Salinity
- Tohungatanga
- Omnivore

### Key Concepts

- Problem Solving
- Design Thinking
- Prediction
- Probability
- Innovation
- Efficiency