

Technological Change

GROWTH IN THE DAIRY INDUSTRY

ESSENTIAL QUESTION

How have technological changes helped the growth of the dairy industry?

WHAT ARE WE LEARNING?

- How innovative technological change has helped the growth of the dairy industry
- Changes that have led to growth in the dairy industry
- Justifications can be very persuasive

TRY THIS WITH

- Years 6-8
- Students who have an interest in innovation and history
- Students who love thinking about 'why'

FIND

Define
Match
Extend

Identify
Name
Estimate

Discuss the statement 'innovation has led to big growth in the dairy industry'
What does this mean?
What is innovation?
What is growth?
Review the 'A Proud History' Factsheet and select examples to help answer this question.
Divide the class into groups of four.
Allocate each group one of the four topics: refrigeration, transport, irrigation and mechanical production processes.
Investigate and record how innovative technological changes in these areas has helped the growth of the dairy industry.

APPLY

Apply
Organise
Breakdown

Build
Categorise
Research

Mix the students from the class activity into new groups.
Each new group should have one person who has investigated each of the different focus topics.
Complete a jigsaw activity and ensure that each group is fully informed in each area.
Use the information learnt to create a mini podcast that informs the listener about the change in the dairy industry.

PRODUCE

Change
Produce
Design

Modify
Compose
Infer

Show the key dates of change and growth in the dairy industry.
Write statements about how and why New Zealand's dairy industry has undergone significant growth. For example, the ability to refrigerate butter exports meant New Zealand could start supplying to far off countries like England
Combine the information collected from the focus topics to create a timeline.
Make decisions about and rank the importance of each change or innovation.
Using Wunderlist, ensure students have ordered their events correctly.
Share with the class. Agree on the importance of each change or innovation as a class. Groups will have to give their justification to persuade the class to accept their ranking. General consensus will determine what the final class rankings are.



SUCCESS CRITERIA

Students can check they have completed the task successfully by:

- Correctly sequencing different innovations on the timeline explaining how each innovation helped the growth of New Zealand's dairy industry
- Justifying reasons to support ranking decisions

PRINCIPLES	VALUES	KEY COMPETENCIES	LEARNING AREAS	WORD BANK	RESOURCES REQUIRED
Coherence Learning to learn	Innovation, inquiry and curiosity Excellence	Thinking Relating to others participating and contributing	Social Sciences Technology	Innovation Refrigeration Transport Production	Te Ara The Encyclopaedia of New Zealand A Proud History Factsheet