

# Identifying Solutions

## SCENARIO PLANNING FOR THE DAIRY INDUSTRY

### ESSENTIAL QUESTION

How would New Zealand's dairy industry be impacted by economic, social and environmental change?

#### WHAT ARE WE LEARNING?

- How economic, social and environmental changes impact New Zealand's dairy industry
- Making connections to predict, infer and forecast
- To create and deliver a compelling presentation
- Creative problem solving

#### TRY THIS WITH

- Years 5-8
- Students who have an interest in problem solving
- Students who like to present their learning digitally

### FIND

- Remember
- Select
- Infer
- Retell
- Rephrase
- Interpret

Create class definitions for the words 'economic', 'social' and 'environmental' change.

Give examples of the different types of change - create a Wunderlist under each category.

Discuss that economic, social and environmental changes will have an impact on New Zealand's dairy industry. Ask the students why?

Using the same lists, add the answers from the discussion.

Allow students time to add to the list - possibly after continuing the discussion at home.

Continue to build on the list during the unit.

### APPLY

- Classify
- Organise
- Investigate
- Correlation
- Focus
- Point out

Discuss this scenario: After the Canterbury earthquake dairy farms in the area suffered power cuts and also broken milking platforms. Farmers faced a huge problem, how would they milk their cows? To complicate things, farms could not supply Fonterra and Synlait with all the milk they needed.

Split the class into two groups. One group must come up with ways they think the farmers could have solved their problems. The other group must think of how the different parts of the dairy industry would have been effected by this change in circumstances.

Divide these ideas into the short term and long term effects. Collate the ideas so the students have a chance to discuss and understand the ideas of others.

### PRODUCE

- Compose
- Solve
- Justify
- Invent
- Consider
- Debate

Divide the class into group of three. Each group is given one of the 5 scenario cards.

For their given scenario, the group must: identify all the problems of the dairy industry that could exist because of their scenario and what the possible impact of these problems will be.

Come up with solutions or adaptations for the dairy industry to solve these problems and alleviate the impacts.

Give detailed explanations of how these solutions or adaptations. As long as they can justify and explain their ideas, there is no limit.

Create a slideshow and oral presentation to present work to the class They should start a brief overview of their future scenario to set the scene for the rest of their presentation.



## SUCCESS CRITERIA

Students can check they have completed the task successfully by:

- Identifying the problems relevant to the dairy industry
- Creating solutions that are relevant to the dairy industry
- Justifying why their chosen solutions would work

PRINCIPLES	VALUES	KEY COMPETENCIES	LEARNING AREAS	WORD BANK	RESOURCES REQUIRED
Coherence High expectations Inclusion Future focus	Innovation, inquiry and curiosity Community and participation Excellence	Thinking Using language Symbols and texts Relating to others	Social Sciences Technology English CREST	Social Environmental Economic Adaption	Scenario Cards