

Develop a Product

INVENTING A DAIRY PRODUCT

ESSENTIAL QUESTION

How are new dairy products created?

WHAT ARE WE LEARNING?

- How the dairy industry is connected with innovation
- The key parts of the process involved in developing a new food product
- Investigating a career that is strongly connected to the dairy industry

TRY THIS WITH

- Years 3-4
- Students who have an interest in product development
- Students who like testing and creating

FIND

Label	Match
Name	Illustrate
Compare	Discuss

Explain that the class will be designing an entirely new flavoured milk or ice-cream.

Use an online supermarket site to identify and list all the different types of dairy products available for sale in NZ.

Discuss why different people have different tastes.

Use Google to investigate the top/weirdest/strangest/most popular flavours of ice-cream and milk internationally.

Create a list of flavours that students know - include flavours that are both real and imagined (e.g. Charlie and the Chocolate Factory by Roald Dahl) Use the flavour list to create a 'class most and least favourite flavours' tally chart. Encourage imaginations to run wild.



APPLY

Build	Discover
Group	Survey
Model	Interview

Discuss which are the best and the most disgusting of your ideas so far.

Model the recording of the process to date - include the following steps:

- Brainstorming
- Researching
- Imagining
- Reflecting

Research and design, in small groups, a new flavour for their dairy product (ice cream or flavoured milk).

Identify a target audience for the new flavour and complete wider research.

Balance creativity, innovation and target audience when deciding upon the final flavour.



PRODUCE

Create	Develop
Defend	Prove
Rate	Recommend

Students will need to plan and consider how to make the new dairy product.

Create a list (either in groups or individually) for what equipment and ingredients they will need.

Question students about how they will control the strength of the flavour.

Allow students time to create their product.

Did it taste like how they imagined it would? Did they like it?

Encourage students to rework if necessary to ensure the product has a balance between being new and fresh and being appealing to the market.

Allow early finishers to develop an advertisement that suits their audience.



SUCCESS CRITERIA

Students can check they have completed the task successfully by:

- Producing a flavoured dairy product
- Discussing the steps to producing a new dairy product
- Articulating why their product would appeal to their chosen audience

PRINCIPLES	VALUES	KEY COMPETENCIES	LEARNING AREAS	WORD BANK	RESOURCES REQUIRED
Future focus Community engagement	Innovation, inquiry and curiosity Diversity Excellence	Thinking Managing self Participating and contributing	Technology English CREST	Ingredients Flavour Target audience Process	From Farm to Breakfast Factsheet