DairyNZ

Engaging students in thinking mathematically and statistically.
USING CATERING AS THE CONTEXT FOR NUMBER STRATEGIES AND KNOWLEDGE.

ESSENTIAL QUESTION
What does it take to feed an Olympic Village?

WHAT ARE WE LEARNING?
- To understand how people contribute to community challenges.
- To use number strategies and knowledge in context.
- To gather and display Olympic data in multimedia presentations.

TRY THIS WITH
- Year Level 5–9
- Students who enjoy coming up with solutions.
- Students who love catering for large numbers.

FIND | APPLY | PRODUCE

FIND		APPLY		PRODUCE	
Locate	Identify	Calculate	Analyse	Visualise	Order
Categorise	Which	Select	Examine	Rewrite	Original
Ask	Classify	Connect	Explain	Substitute	Give examples

FIND
Watch 'Beginner's Guide to the Olympics'.

Write questions based on 'catering for the Olympics' to challenge each other.

Post questions in a class box.

'Lucky Dip' a question to answer. Estimate and then investigate the answer.

Post answers on a class Spiderscribe.

Start a YouTube playlist of clips about Olympic numbers.

Locate Rio 2016 numbers to match London 2012: Olympic People in Numbers.

Add information to the Spiderscribe.

Estimate the total number of people involved in the Olympics.

Research the health benefits of dairy.

Look at 'Food, glorious food: Olympic athletes' extreme eating habits'.

Investigate food requirements for the athletes, officials and supporters.

Differentiate between carbohydrate and protein requirements.

APPLY
Imagine catering for an Olympic Village.

Hypothesise: If 75,000 litres of milk, 25,000 loaves of bread and 232 tons of potatoes were consumed at the London Olympics, what quantities will Rio need?

Use numbers from 'Feeding the London Olympic Village' to start calculations.

Choose a Rio meal that involves dairy.

Work out the cost if you were cooking for 20,000 people.

Discuss considerations other than quantity.

Use 'Rio Olympics 2016 documents' to explain the sustainability supply chain.

Investigate sustainability in the NZ dairy industry.

Ensure that the products that you have budgeted for meet these standards.

Brainstorm the logistics and difficulties in catering for the Olympics.

Decide on ways in which a community can focus on people, planet and prosperity.

PRODUCE
Innovate with Olympic number relationships concentrating on dairy products, e.g. 75,000 litres of milk = 7,500 kg hard cheese.

Input the Olympics numbers into Venngage and create infographics.

Create a Rio 2016 version of London 2012: People in numbers in Animaker.

Dedicate a section to 'What does it take to feed an Olympic Village?'

Choose a 'best fit' template for the presentation.

Revisit the Spiderscribe to make decisions about content and order.

Create a group storyboard (graphic organiser) to organise the Rio 2016 numbers, facts and key people.

Follow Animaker tutorial prompts to turn the storyboard into slides.

Choose characters to represent the key people and complete the Animaker presentation.

SUCCESS CRITERIA

Students can check they have completed the task successfully by:
- Collating Rio de Janeiro Olympics numbers on a Spiderscribe.
- Describing the logistics and difficulties in feeding an Olympic Village.
- Producing an Animaker based on the Rio 2016 Olympics.

PRINCIPLES	VALUES	KEY COMPETENCIES	LEARNING AREAS	WORD BANK	KEY CONCEPTS
Inclusion	Diversity	Thinking	Mathematics	Catering	Place and environment
Future focus	Excellence	Relating to others	Education for sustainability	Logistics	The economic world
				Contribute	Socioecological perspective
				Sustainability	Planning practices