

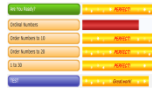
Mathletics and the Key Competencies

This document outlines the relationship between the New Zealand Curriculum Key Competencies and the tools and resources available with Mathletics. You could use this framework to help structure your Mathletics teacher training by identifying your school's objectives and then focusing on the relevant section.



	Face Maker	Live Mathletics	Curriculum Activities	Support Centre	Reward Schemes	Problem Solving	Concept Search	Teacher Toolkit	Instant Workbooks	Hall of Fame
Thinking	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Using language, symbols and text	✓	✓	✓	✓		✓	✓	✓	✓	✓
Managing self	✓	✓	✓	✓	✓	✓	✓		✓	✓
Relating to others		✓		✓		✓			✓	✓
Participating and contributing		✓				✓	✓		✓	✓

*See overleaf for specific examples



Face
Maker

Live
Mathletics

Curriculum
Activities

Support
Centre

Reward
Schemes

Problem
Solving

Concept
Search

Teacher
Toolkit

Instant
Workbooks

Hall of Fame

“Intellectual curiosity is at the heart of this competency.” “Students who are competent thinkers and problem-solvers actively seek, use, and create knowledge.”

Thinking

- Familiarise your class with new topics and develop strategies together using the resources in your Teacher Toolkit or your Teacher Demonstration area. The Instant Workbooks can be printed or used from a projector or IWB.
- Ask students to repeat curriculum activities three times to consolidate learning and improve their results.
- Students can explore the Problem Solving and My Games areas individually then come together as a class to discuss their strategies.

Using
language,
symbols and
text

“Using language, symbols, and texts is about working with and making meaning of the codes in which knowledge is expressed.” “They confidently use ICT (including, where appropriate, assistive technologies) to access and provide information and to communicate with others.”

- Create a Mathletics display using Mathletes, maps and participation certificates.
- Students can go for gold bars and rid the red by completing each activity at least 3 times or until mastery is achieved.
- Students can recreate themselves (or their alter ego) using Face Maker. Students that have earned and spent more credits will have more animated and detailed Mathletes.

Managing
self

“This competency is associated with self-motivation, a “can-do” attitude, and with students seeing themselves as capable learners. It is integral to self-assessment.”

- Encourage students to use the Something Harder and Something Easier functions when it’s appropriate. Students should also be using the Support Centre and the Concept Search to assist them in areas they are yet to master.
- Get students to set target dates to achieve bronze, silver and gold participation certificates.
- Students can review their progress and set goals for themselves using the reports in Live Mathletics and in Curriculum Practice.

Relating to
others

“Students who relate well to others are open to new learning and able to take different roles in different situations.” “They know when it is appropriate to compete and when it is appropriate to co-operate.”

- Organise a students versus teachers Live Mathletics competition or a Mathletics blitz week where students collaborate to get their class onto the Hall of Fame. This could be during the NZ Maths Challenge or at any time of the year.
- Use the games or problem solving sheets in the Instant Workbooks as group activities. Assign students roles such as scribe, time keeper, reporter.

Participating
and
contributing

“This competency includes a capacity to contribute appropriately as a group member, to make connections with others, and to create opportunities for others in the group.” “They may be drawn together for purposes such as learning, work, celebration, or recreation.”

- Map countries played against in Live Mathletics and investigate related cultures or languages as part of a cross-curricular or inquiry activity.
- Students can be involved the NZ and worldwide Mathletics community by following Mathletics NZ on Twitter, becoming a fan of Mathletics NZ on Facebook or by following the blog from the News button on the homepage.

*The quoted text is from the New Zealand Curriculum Key Competencies