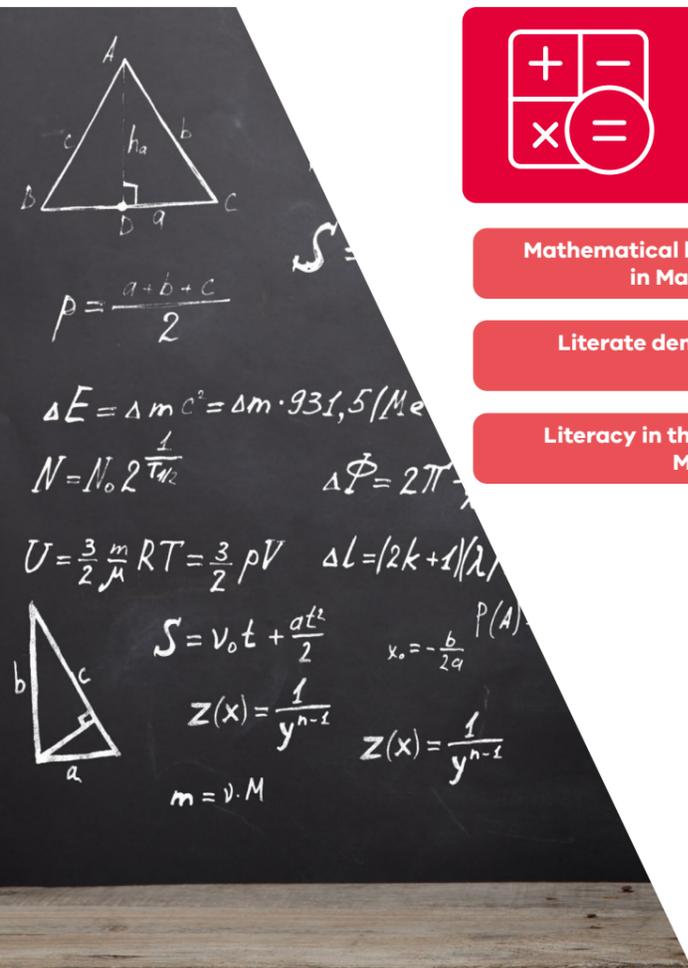


Literacy Teaching Toolkit (Maths) Map – Levels 7 to 10



Introduction to literacy in Mathematics

Mathematical literacy and literacy in Mathematics 

Literate demands in mathematics education

Literacy in the Victorian Curriculum: Mathematics



Developing understanding in Mathematics

Learning mathematical language

Translating from words to symbols 

Understanding mathematical terms and notation

Everyday versus mathematical language

Technical terminology

Using morphological matrices with measurement units

Introducing new mathematical terminology

Reading and discussing operations for meaning

Using cognitive conflict to promote precision of definitions

Language for graphs and statistical displays

Using literacy to support problem solving

Close reading: Identifying key information in a problem statement

Identifying a simpler, related problem

Drawing a diagram

Using an organised list

Identify a pattern

Linking count nouns and mass nouns to variables in statistics

Investigating a concept from multiple perspectives

Explicitly teaching counter-examples

Developing students' question posing



Communicating understanding in Mathematics

Creating visual representations

Converting written questions into graphical representations

Discussing and critiquing graphical representations

Creating tables

Jointly constructing concept maps

Creating and presenting statistical displays

Supporting solutions

Critiquing and questioning solutions

Recognising appropriate answers

Justification of solutions 

Communicating solutions where technology is used



Literacy in Mathematics: putting it together

Writing solutions to worded mathematical problems Understanding this strategy

Formulate the problem mathematically

Reasoning and calculations

Answer

Example using written solutions

Example: School fete muffins

Learning sequence

Key:
 = Video