



Using Maths Aotearoa and Wilkie Way to deliver the refreshed New Zealand Curriculum

Maths Aotearoa teacher book 1B is set out in 4 units providing a sequenced approach to developing key number knowledge, skills and concepts. Measurement activities are found in unit 3 but they can be used at any time during the school year. You may choose to focus on specific measurement attributes at different times during the school year. (Measuring lengths is the most likely to create fractions of units)

A focus on language development for all attributes should continue at all times during everyday activities.

Suggested activities are provided in the teacher book for each attribute: Length, Mass, Area, Volume/Capacity, Temperature and Time

Blackline masters (included in the teacher book provide follow up work to activities or further learning opportunities.

Maths Aotearoa teacher books and activity cards are available from edify.co.nz

Wilkie Way members also have access to Professional Resources on the teaching of early measurement

Phase 1: Year 2

Understand: (big ideas)	Do (practices)
As students build knowledge through their use of the mathematical and statistical processes, they begin to understand: <ul style="list-style-type: none"> • Patterns and variation • Logic and reasoning • Visualisation and application 	Students will have learning opportunities, and be guided to: <ul style="list-style-type: none"> • Investigate situations • Represent situations • Connect situations • Generalise findings • Explain and justify findings

Know: Context of Measurement

Measuring	Perimeter, area, and volume
Estimate and use an informal unit repeatedly to measure the length, mass, volume or capacity of an object. Compare and order several objects using informal units of length, mass, volume or capacity. Turn, and describe how far an object or person has turned using full, half and quarter turns as benchmarks. Name and order the months and seasons, and describe the duration of familiar events using months, weeks, days and hours. Tell the time to the hour and half hour using the language of past & o'clock.	Visualise, estimate and measure the perimeter and area of 2 D shapes using informal units

Maths Literacy Development

- Assistance with learning specialist vocabulary.
- Assistance with reading & understanding math texts.
- See vocabulary list in curriculum document.

Concepts being developed	Key knowledge being developed
<ul style="list-style-type: none"> • Understand measurement as a repeat of a single unit without gap or overlap • The unit of measure must have the attribute being measured and be of uniform size. • The units of measure can be combined and counted • Units of measure can be partitioned into equal size units (fractions of a unit - halves and quarters) 	<ul style="list-style-type: none"> • Know mass and temperature can be felt but not seen • Know area as a surface • Know volume as an occupation of space • know capacity as how much something holds • Knows days of the week and some months of the year

Maths Aotearoa Book 1B

Unit 3: Beginning Fractions

Support Material available from Wilkie Way website wilkieWAY.co.nz: membership area (subscription)

Element 5 Exploring Measurement

- Measure the length of an object by selecting and counting the number of units
- Use a balance scale to measure the mass of an object by counting units
- Measure capacity and volume by counting the number of units
- Describe passage of time as “earlier than” or “later than” a specific time or event
- Measure area by counting the number of squares

Maths Aotearoa Activity Cards

Card 17 Angle, Speed
Card 18 - 20 Length
Card 21 Area
Card 22 Capacity
Card 23 & 24 Mass
Card 25 Time

BLM 6 Length & time (speed)
BLM 7 - 10 Length
BLM 11 - 13 Area
BLM 14 & 15 Capacity
BLM 16 & 17 Mass
BLM 18 & 19 Time
BLM 20 & 21 Volume

Teacher Professional Resources:

Curriculum Knowledge: Measurement

Pocket Guide: Beginning Measure
Powerpoint: The development of measurement concepts & their alignment with number ideas
Article: Developing a linguistic and conceptual understanding of measurement