

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

All the progress outcomes for end of phase 1 (year 3) are found in the Maths Aotearoa Book 2A with the exception of a specific learning activity on perimeter. Ensuring use of the term perimeter in meaningful contexts can occur in everyday situations - perimeter of the playground, perimeter of the school field etc.

Maths topics connect with each other and Maths Aotearoa chose to include turns in a chapter on Giving Direction (position and orientation) This chapter has been referenced in this plan

## Maths Aotearoa teacher books and student books are available from edify.co.nz

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

Phase 1: Year 3		
Understand: (big ideas)	Do (practices)	
	Students will have learning opportunities, and be guided to:         Investigate situations         Represent situations         Connect situations         Generalise findings         Explain and justify findings         v: Contexts of Measurement         ths Literacy Development	
Concepts being developed	Key knowledge being developed	
<ul> <li>Measuring starts at the beginning of the object being measured.</li> <li>The size of the measurement unit remains the same.</li> <li>Measurement units are repeated with no gaps or overlaps</li> <li>The measure is the total number of units used.</li> <li>Units can be partioned into equal size smaller units</li> </ul>	<ul> <li>The length around the outside of a 2 D shape is called the perimeter</li> <li>The surface of a 2 D shape is called the area</li> <li>The space occupied by a 3D shape is the volume, how much it holds is the capacity</li> </ul>	

Maths Aotearoa Book 2A	Support Material available from Wilkie Way website wilkieway.co.nz: membership area (subscription)
Unit 7: Transformations	
tessalate can be used to measure area. This understanding is foundational for understanding the standard	Teacher Professional Resources: Curriculum Knowledge: Measurement Pocket Guide: Learning to Measure Measurement Progressions Powerpoint: The development of measurement concepts & their alignment with number ideas Article: Developing a linguistic and conceptual understanding of measurement
Unit 8 Position and Orientation	
around a fixed point (the mealy as). This is foundational work for making some of measuring angles	Student Resources: Measurement problems
Unit 9: Length	
<ul> <li>Chapter 24 Measuring Length</li> <li>Know linear measure as the repeat of a single unit of length, without gaps or overlaps</li> <li>Know standard units of length - metre (m), decimetre (dm), centimetre (cm), millimetre (mm), kilometre (km)</li> <li>Estimate lengths</li> <li>Select an appropriate unit of measure</li> <li>Recognise parts of a unit as a fraction of a unit</li> <li>Use a ruler to measure lengths in centimetre</li> <li>(<i>Perimeter is not formally introduced until book 2B but there is no reason why it should not be talked about in measurement activities</i>)</li> </ul>	
Unit 10: Mass	
<ul> <li>Chapter 25 Measuring Mass</li> <li>Measuring mass by weighing an object using the repeat of a single unit of mass</li> <li>Know a unit of mass can be combined into another single unit to represent a repeat of single units (eg a 100g weight)</li> <li>Know standard units of mass - gram (g) and kilogram (kg)</li> <li>Estimate the mass of an object using a benchmark mass</li> <li>Use a combination of weights to measure mass</li> <li>Use balance scales</li> </ul>	
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Unit 11: Capacity and Volume	
<ul> <li>Chapter 26 Measuring Capacity and Volume</li> <li>Understand capacity and volume as measures of space</li> <li>Measure volume using the repeat of a single unit of volume with no gaps or overlaps</li> <li>Know standard units of capacity - litres (L) and millilitres (mL)</li> <li>Know standard units of volume cubic centimetre or centimetre cubed (cm<sup>3</sup>)</li> <li>Estimate and measure using litres and millilitres</li> <li>Explore the meaning of volume as a measurement of space</li> <li>Measure volume using appropriate units (cubes)</li> </ul>	
Unit 12: Time	
<ul> <li>Chapter 27 Measuring Time</li> <li>Begin to understand the cyclic nature of time</li> <li>Compare and order times using a time line</li> <li>Name and order days of the week from any starting point</li> <li>Name and order months of the year from any starting point</li> <li>Identify the start and finish point of an event</li> <li>Investigate different tools for measuring time</li> </ul>	
<ul> <li>Chapter 28 Telling the Time</li> <li>Read o'clock, half past, quarter to and quarter past on an analogue clock</li> <li>Read the hours and minutes on a digital clock</li> <li>Make connections between the digital clock and the analogue clock (quarter past = 15 minutes etc.)</li> <li>(BLM 13 - analogue clockfaces)</li> </ul>	