

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

The learning experiences taken from book 4A and 4B directly match with the progress outcomes as written for year 8. You may choose to use the mini projects from Book 4A as assessment tasks in year 8 for evidence of achievement of the progress outcomes. Some of the learning experiences in Book 4B go beyond the expected progress outcomes for year 8 and provide foundational work for progress during phase 4

There are many more learning opportunities to be found in Figure it Out. Links to Figure it out activities can be found in the Maths Aotearoa teacher books.

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 and measurement problems

Phase 3: Year 8		
Understand: (big ideas)	Do (practices)	
	 Students will have learning opportunities to: Investigate situations Represent situations Connect situations Generalise findings Explain and justify findings 	
Confidently use specialist vocabulary associated with measurement.	y Development	
 Confidently read & understand math texts involving measurement language Understand the meaning of prefixes using in measurement units 	· · · · · · · · · · · · · · · · · · ·	
Concepts being developed	Key knowledge being developed	
 Understand the relationship between standard units of measure and use to convert fractions to whole numbers and vice versa Understand time is not based on powers of ten except fractions of seconds Understand the zero point for measuring time is determined by what needs measuring Understand the degree of accuracy of measure is dependent on the context in which the measurement is to be used. Understand any point on a scale can be used as a zero point 	 Know the base metric units and the prefixes of other units describe the relationship to the base unit Know shapes can be decomposed or recomposed to help find perimeters areas and volumes Specific vocabulary and ideas related to circles (foundational to Phase 4) Know relationship between time, distance and speed (foundational to Phase 4) 	

Unit 5: Oberten 40 Investigation with Angles	(subscription)
 This chapter sits under the unit on Position and Orientation leading into work on bearing. The focus of the chapter is on angles in triangles to define different triangles and angles along stright lines and with intersecting lines leading toward using algebraic reasoning to explain rules for geometric shapes. Know the interior angles of a triangle add up to 180° Know the angles on a straight line add up to 180° Use knowledge of rotation to calculate unknown angles along a straight line 	Teacher Professional Resources: Curriculum Knowledge: Measurement Pocket Guide: Using Standard Units of Measure

Chapter 21 Rates of Measure	
(Foundational work for Phase 4)	
Recognise a realtionship between time, distance and speed	
Calculate a measurement over a period of time	
Calculate speed from distance and time measures	
Use ratios and proportional reasoning to solve problems	
Use calculators efficiently to solve problems	
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