

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

There are currently no progress steps given for year 7 so it is essential to look at the progress outcomes for year 8 and consider the types of learning experiences that students require to build up to achieving the progress outcomes at the end of year 8. The learning experiences are taken from book 4A and work towards the progress outcomes as written for year 8.

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 geometric ideas and geometric problems

Phase 3: Year 7		
Understand: (big ideas)	Do (practices)	
 Use maths to seek and understand patterns and relationships Use maths to work with and make sense of change and variation Use maths logic & reasoning to explain relationships and justify conclusions Make use of different cultural views and ideas about mathematics Embrace the history and evolution of mathematics 	Students will have learning opportunities to:	
Know: Contox	t of Space (Geometry)	

Know: Context of Space (Geometry)

Maths Literacy Development

- Confidently use specialist vocabulary associated with shape, space, position and orientation
- Confidently read & understand math texts involving geometric language and concepts

Concepts being developed
Angle properties of geometric shapes Spatial awareness by thinking and asking Which way? How far? Proportional thinking Importance of symmetry to different cultures Variant and invariant properties of shapes

Unit 4 Geometric Properties Chapter 13 Constructing Geometric Shapes Classify polygons based on their geometric properties Construct triangles and regular hexagons using a ruler and compass Chapter 14 Lines and Angles This chapter was included in the measurement plan as it involves measuring angles. Use the language of angles- acute, obtuse, reflex Use the language of straight lines - vertical, horizontal, diagonal, parallel, perpendicular, intersection Draw conclusions about angles at an intersection Draw conclusions about angles accurately Moderation Using Curriculum Progress Tools Geometric Progressions Moderation Using Curriculum Progress Tools Geometric Progressions 3 - 5 Hotel To Maps and Plans Use knowledge of simple ratios to find equivalent ratios Select and interpret scales on maps and plans Investigate plan view drawings Draw a plan to a self selected scale	hinking
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Draw a plan to a self selected scale	
Unit 6 Transformations	
Chapter 16 Rotational and Reflective Symmetry	
Use terminology order of reflective symmetry and rotational symmetry with understanding	
Investigate symmetrical and angle properties of parallelograms	
Chapter 17 Enlargements	
Enlarge a simple shape by a specific scale factor	
Know a fractional scale factor results in a reduction	
Identify the invariant properties of an enlargement	