

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

Progess outcomes for year 6 are more specific and work in year 4 and 5, through books 2B and 3A have provided foundational work to achieve the progress outcomes. Further work in Book 3B extends previous work and introduces new terminology and ideas. Mini projects in each of the units provide assessment opportunities. Many of the learning opportunities provide foundational work for continued student learning in phase 3.

Each chapter is linked to further learning experiences in Figure it Out.

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 further classroom resources

Phase 2: Year 6		
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: Context of Space (Geometry)		

Maths Literacy Development

- Use specialist vocabulary associated with shape, space, position and orientation with increasing confidence
- Read & understand math texts involving geometric language and concepts

Concepts being developed	Key knowledge being developed
Direction (which way?) ,Distance (how far?) Location (where?), representation (object)	Names for different sorts of triangles: equilateral, isosceles, scalene, right angle
Reflective and Rotational symmetry	Know terms polygon and polyhedron (plural polyhedra)
Tranformations	Read and interpret scales on a map
Spatial thinking	Know the convention of labelling corners of shapes and describing the
Spatial reasoning	lengths of the sides using the corner labels
Spatial visualisation	Know position of major cities within New Zealand
Multiplicative and proportional thinking	

Maths Aotearoa Book 3B	Support Material available from Wilkie Way website wilkieway.co.nz: membership area (subscription)
Jnit 6 Geoemtric Properties	Teacher Professional Resources:
Chapter 16 Triangles and Angles	Curriculum Knowledge: Measurement
Describe and name different sorts of triangles	Pocket Guide: Further Developing Geometric Thinking
Discover angles in a triangle always add to 180°	
Investigate side length relationships in right angle triangles	Geometric Progressions
Investigate angles within a square	
Chapter 17 Parallel and Perpendicular lines	
Use language parallel and perpendicular in meaningful contexts	Ctudent Decourage
Introduce parallelogram and rhombus	Student Resources:
Extend the description of properties to identify specific quadrilaterals	Geometric problems
Chapter 18 Prisms and Pyramids	Video Lessons
Describe the attributes of prisms and pyramids using correct geometric language	Lines angles and triangles
Explore building pyramids and prisms (e.g. using polydron)	Drawing plane shapes
Design nets for specific prisms	
Jnit 7 Transformations	
Chapter 19 Rotations, Reflections and Translations	
Recognise reflective and rotational symmetry	
Understand the difference between reflective and rotational symmetry	
Describe translation on a grid	
Design patterns involving reflection, rotation and translation	
Jnit 8 Position and Orientation	
Chapter 20 Maps and Pathways	
Interpret and use scales to give actual distances	
Use compass points to describe direction	
Use co-ordinates or grid references to describe position and pathways	
Investigate flight paths	