



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

The Maths Aotearoa teacher book 1B is set out in 4 units providing a sequenced approach to developing key number knowledge, skills and concepts.

Shape (Geometry) progress steps come under the headings Classification and Spatial Reasoning on the way to meeting the space progress outcomes at the end of the phase.

Learning experiences for this deceptively large area of foundational learning can be found in all 4 units of Maths Aotearoa Book 1B as set out below. The learning area is very language dense and a focus on language development should continue at all times during everyday activities.

Suggested activities are provided in the teacher book, some referring to the activity cards

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 and Classroom Resources on the teaching of early geometric ideas

Phase 1: Year 2

Understand: (big ideas)	Do (practices)
<ul style="list-style-type: none"> • Maths is about seeking patterns • Maths is about change and variation • Maths involves reasoning - from observations • Maths develops within different cultures • Maths is created by humans and therefore has a history and continues to evolve. 	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 Space (Geometry)	
Maths Literacy Development	
<ul style="list-style-type: none"> • Assistance with learning and using specialist vocabulary. • Assistance with reading & understanding math texts. 	
Concepts being developed	Key knowledge being developed
<ul style="list-style-type: none"> • Direction (which way?), Distance (how far?), Location (where?) • Angle as a turn around a fixed point • Reflective symmetry • Equality as a balance between two halves • Classification by attribute 	<ul style="list-style-type: none"> • Direction left and right • Half as two equal parts • Quarter as four equal parts • Language of geometry to describe attributes • Use attributes to name the shape

Maths Aotearoa Book 1B

Unit 1: Understanding Addition and Subtraction (<i>Continued alongside Unit 2</i>)		Support Material available from Wilkie Way website wilkieWAY.co.nz: membership area (subscription)
Element 6 Exploring Position and Orientation <ul style="list-style-type: none"> Identify circle, square, rectangle (oblong) and triangle in their 3D world Describe what they can see with increasing geometric language 	Maths Aotearoa Activity Cards Unit 1 29 BLM 12 - 15	Teacher Professional Resources: Curriculum Knowledge: Geometry Pocket Guide: Beginning Geometric Thinking Geometric Progressions Classroom Resources Geometry Name my shape Video Lesson Geometric thinking GT 2 Left and Right Turns
Unit 3: Beginning Fractions		
Element 1 Fractions of Shapes <i>(using some activities from this unit, and in particular the language provides foundational work for developing the concept of fractions of a region)</i> <ul style="list-style-type: none"> Fold shapes into halves and quarters Name the shapes Look at regular and irregular shapes to expand knowledge of the visual attributes of shapes 	Maths Aotearoa Activity Cards Unit 3 Cards 1 - 3	
Element 4 Reflective Symmetry <ul style="list-style-type: none"> Recognise reflective symmetry in a pattern Create a pattern with reflective symmetry 	Maths Aotearoa Activity Cards Unit 3 Cards 14 - 16 BLM 1 - 5	
Unit 3: Beginning Fractions (<i>Continued alongside Unit 4</i>)		
Element 6 Exploring 2D & 3D Shapes <ul style="list-style-type: none"> Know names of common 2D and 3D shapes Use attributes to identify common 2D shapes (regular and irregular shapes) <i>(regular shapes have sides and angles of equal length, irregular shapes have sides of differing lengths and therefore different angles)</i>	Maths Aotearoa Activity Cards Unit 3 Cards 26 - 29 BLM 22 - 24	