



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

The Maths Aotearoa teacher book 1A 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 1A 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 1

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

- 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">• Understand own position in relation to other objects• Understand relative position between objects• Identify different attributes• Spatial awareness• Spatial reasoning• Reflective symmetry	<ul style="list-style-type: none">• Language of position• Names of simple 2 dimensional shapes• Names for simple 3 dimensional shapes• Names for visual attributes of shapes (sides, corners, straight, curved etc)• Half as two equal pieces

Maths Aotearoa Book 1A

Unit 1: Making Sense of Small Numbers (<i>Continued alongside Unit 2</i>)		Support Material available from Wilkie Way website wilkieWAY.co.nz: membership area (subscription)
<p>Element 2 Working with Shapes</p> <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 	<p>Maths Aotearoa Activity Cards Unit 1</p> <p>Cards 4 - 8</p> <p>BLM 5 - 14</p>	<p>Teacher Professional Resources:</p> <p>Curriculum Knowledge: Geometry Pocket Guide: Beginning Geometry Geometric Progressions</p> <p>Foundational Resources</p> <p>Sorting & Matching Visual Memory</p> <p>Geometry</p> <p>Name my shape</p> <p>Video Lesson</p> <p>Geometric thinking GT 1 Ordering</p>
<p>Element 5 Describing Position</p> <ul style="list-style-type: none"> describe their position in relation to another person or object use positional language in everyday situations 	<p>Maths Aotearoa Activity Cards Unit 1</p> <p>Cards 20 - 21</p> <p>BLM 19 - 27</p>	
Unit 3: Combining, Comparing and Ordering		
<p>Element 1 Shape and Pattern</p> <ul style="list-style-type: none"> Name common 2 dimensional shapes Name common 3 dimensional shapes Confidently use language of appearance Identify the rule in a repeat of a visual pattern and continue the pattern 	<p>Maths Aotearoa Activity Cards Unit 3</p> <p>Cards 1 - 3</p> <p>BLM 1 - 5</p>	
Unit 4 Combining, Grouping & Sharing		
<p>Element 4 Symmetry and Patterns</p> <ul style="list-style-type: none"> Explore reflections Create symmetrical designs Recognise reflective symmetry in shapes 	<p>Maths Aotearoa Activity Cards Unit 4</p> <p>Cards 22 - 23</p>	