



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

Maths Aotearoa teacher book 1A is set out in 4 units providing a sequenced approach to developing key number knowledge, skills and concepts. Learning experiences for this deceptively large area of foundational learning is 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)

As students build knowledge through their use of the mathematical and statistical processes, they begin to understand:

- Patterns and variation
- Logic and reasoning
- Visualisation and application

Do (practices)

Students will have learning opportunities, and be guided to:

- Investigate situations
- Represent situations
- Connect situations
- Generalise findings
- Explain and justify findings

Know: Context of Geometry

Shapes	Spatial reasoning	Pathways
Identify, describe and sort familiar 2D and 3D shapes presented in different orientations including triangles, circles, rectangles (including squares) cubes, cylinders and spheres.	Anticipate which smaller shapes might be used to compose a target shape and then check by making the shape. Flip, slide and turn 2D shapes to make a pattern.	Follow and give instructions to move to a familiar location or locate an object. Use picture, diagrams or stories to describe the positions of objects and places.

Maths Literacy Development

- Assistance with learning and using specialist vocabulary.
- Assistance with reading & understanding math texts.
- See vocabulary list in curriculum document

Concepts being developed

- Understand own position in relation to other objects
- Understand relative position between objects
- Identify different attributes
- Spatial awareness
- Spatial reasoning
- Reflective symmetry

Key knowledge being developed

- 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 (Continued alongside Unit 2)		Support Material available from Wilkie Way website wilkieway.co.nz: membership area (subscription)
Element 2 Working with Shapes <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 Cards 4 - 8 BLM 5 - 14	Teacher Professional Resources: Curriculum Knowledge: Geometry Pocket Guide: Beginning Geometry Geometric Progressions Geometry Phase One Name my shape Video Lesson 1. Before After Between 2. Following & Giving Directions
Element 5 Describing Position <ul style="list-style-type: none"> describe their position in relation to another person or object use positional language in everyday situations 	Maths Aotearoa Activity Cards Unit 1 Cards 20 - 21 BLM 19 - 27	
Unit 3: Combining, Comparing and Ordering		
Element 1 Shape and Pattern <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 	Maths Aotearoa Activity Cards Unit 3 Cards 1 - 3 BLM 1 - 5	
Unit 4 Combining, Grouping & Sharing		
Element 4 Symmetry and Patterns <ul style="list-style-type: none"> Explore reflections Create symmetrical designs Recognise reflective symmetry in shapes 	Maths Aotearoa Activity Cards Unit 4 Cards 22 - 23	