



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

Maths Aotearoa Book 2B provides a range of learning opportunities building onto knowledge and concepts developed in year 3. These learning opportunities enable students to achieve the outcomes expected in year 4. The teacher book also provides links to further learning opportunities in the MOE Figure it Out series available in all schools. Probability investigations and learning experiences occur in situations across the curriculum. The language of chance is often used in everyday speech without the preciseness of meaning as in a probability investigative situation.

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 statistical thinking

Phase 2: Year 4

Understand: (big ideas)	Do (practices)
As students build knowledge through their use of the mathematical and statistical processes, they begin to understand: <ul style="list-style-type: none"> • Patterns and variation • Logic and reasoning • Visualisation and application 	Students will have learning opportunities to: <ul style="list-style-type: none"> • Investigate situations • Represent situations • Connect situations • Generalise findings • Explain and justify findings

Know: Context of Probability

Probability Investigations	Critical thinking in probability
Engage in chance based investigations with equally likely outcomes by: <ul style="list-style-type: none"> • posing an investigative question • anticipating and then identifying possible outcomes for the investigative question • generating all possible ways to get each outcome (a theoretical approach), or undertake a probability experiment and recording the occurrences of each outcome • creating data visualisations for possible outcomes • describing what these visualisations show • finding probabilities as fractions • answering the investigative question • reflecting on anticipated outcomes 	Agree or disagree with others' conclusions about chance based investigations

Maths Literacy Development

<ul style="list-style-type: none"> • Assistance with learning to use vocabulary of chance • Assistance with reading & understanding math texts involving probability concepts. • See the vocabulary list in the curriculum document
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Concepts being developed	Key knowledge being developed
<ul style="list-style-type: none"> • Role of chance in decision making • Equality or inequality • Certainty or uncertainty 	<ul style="list-style-type: none"> • Extend language to include certain, possible, likely, unlikely, impossible, more of a chance, less of a chance, fair, unfair

Maths Aotearoa Book 2B	Support Material available from Wilkie Way website wilkieWAY.co.nz: membership area (subscription)
Unit 14 Probability	Teacher Professional Resources:
Chapter 30 Probability <ul style="list-style-type: none"> • Explore chance based investigative activities • Collect and record data to answer chance based investigative activities • Consider the likelihood of an outcome • Consider situations as fair or unfair • Use the language of chance in a variety of situations 	Curriculum Knowledge: Statistics Pocket Guide: Developing Statistical Thinking