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

Maths Aotearoa teacher book 1B is set out in 4 units providing a sequenced approach to developing key number knowledge, skills and concepts. Statistics and probability can be found in Unit 1 in the Book 1B. It builds on from year 1 as students can begin to learn about collecting data for a specific purpose; to answer a question or prove an assertion. The probability for year 2 extends the introduction of the language of chance from year 1 and the same activities as given in Book 1A can be used to identify possible outcomes and notice variations in outcomes.

Maths Aotearoa teacher books and activity cards are available from edify.co.nz

Wilkie Way members also have access to Professional Resources on the teaching of statistical thinking

Phase 1: Year 2

Understand: (big ideas)	Do (practices)
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	Students will have learning opportunities, and be guided to: • Investigate situations • Represent situations • Connect situations • Generalise findings • Explain and justify findings

Know: Context of Statistics and Probability

Statistics	Probability
Problem: Pose a summary investigative question about a group for which the data will have categorical variables. and anticipate what the data might show. **Plan:** Plan survey and data collection questions for collecting data, identify who and what the data will measure, and discuss how the data gathering process might affect people. **Data:** Collect categorical data for more than one variable **Analysis:** Create & make statements about data visualisations (Pictures, graphs dot plots) for the categorical data, comparing the frequencies of categories. **Conclusion:** Choose from given options the statements that best answer the investigative question. **Statistical literacy:** Match statements made by others with features in simple data visualisations and agree or disagree with statements.	Engage in chance based investigations about games and everyday situations to: • anticipate and identify possible outcomes • collect & record data • Create data visualisations for frequencies of possible outcomes • describe what these visualisations show • answer the investigative question notice variation in outcomes Agree or disagree with the statements made by others

Maths Literacy Development

- Assistance with using the language of chance -See vocabulary list in curriculum document
- Assistance with using the language of number comparison
- Assistance with creating and interpreting visual displays

Concepts being developed	Key knowledge being developed
• Additive comparison • Equality • Variation and chance • Statistical inquiry cycle • Prediction • Estimation	• Ask questions - How many? How many more/less? • Make assertions • More/Less • Most/Least

Maths Aotearoa Book 1B		
Unit 1: Understanding Addition and Subtraction		**Support Material available from Wilkie Way website wilkieway.co.nz: membership area (subscription)**
Element 5 Exploring Statistics and Probability With teacher assistance: • Pose a question or assertion • Decide the data to be collected • Collect the data • Use tally marks as a data collection tool • Display the data in a pictograph or bar chart • Answer questions based on the data • Draw conclusions around the question asked or assertion made • Identify possible outcomes and notice variations in outcomes	**Maths Aotearoa Activity Cards** Activity Cards 26 - 28 **BLM** 7 - 11	**Teacher Professional Resources** **Curriculum Knowledge** **Statistics** Pocket Guide: Beginning Statistical Thinking