

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

The learning experiences are taken from book 4B and work towards the progress outcomes as written for year 8 and provide foundations for work in phase 4. Statistical investigations are used in inquiry situations across the curriculum and further learning experiences should be explored throughout the school year. Completing the statistics chapters early in the school year provides students with knowledge and skills to be used in other inquiries. Each chapter is linked to further learning opportunities in Figure it Out

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

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

Phase 3: Year 8		
Understand: (big ideas)	Do (practices)	
 Use maths to seek and understand patterns and relationships Use maths to work with and make sense of change and variation Use maths logic & reasoning to explain relationships and justify conclusions Make use of different cultural views and ideas about mathematics Embrace the history and evolution of mathematics 	 Students will have learning opportunities to: Investigate situations Represent situations Connect situations Generalise findings Explain and justify findings 	
Know: Context of Statistics		
Maths Literacy Development		
 Confidently use specialist vocabulary associated with statistics Confidently read & understand math texts. Confidently create and interpreting a wide variety of visual displays 		
Concepts being developed	Key knowledge being developed	
 Statistical inquiry cycle Purpose and limitations of different data displays Multi-variate data Quantitative data (number data) Qualitative data (category data) Proportional thinking 	 Variety of data displays Use fractions and percentages Importance of labels Importance of units of measure Know measures of centre and spread 	

Maths Aotearoa Book 4B	Support Material available from Wilkie Way website wilkieway.co.nz: membership area (subscription)
 Unit 8: Statistics and Probability Chapter 22 Working with the Data Use the data inquiry cycle Decide what data needs to be collected to answer questions posed Calculate measures of centre - mode, median, mean Calculate spread - range Describe and explain clusters and outliers in the data Describe and explain patterns and trends in the data 	Teacher Professional Resources: Curriculum Knowledge: Statistics Pocket Guide: Further Developing Statistical Thinking Moderation Statistical Thinking Progressions Signposts 3 - 6
 Chapter 23 Using the Statistical Enquiry Cycle Use the data inquiry cycle Follow data driven statistical investigations Follow question driven statistical inquiries Read and interpret a variety of data displays Identify errors in the data Make comparisons within and between data displays Identify features, patterns and trends Draw conclusions and give reasons based on the context of the data. 	