# **Exploring financial sustainability through Mathematics and Statistics**

Achievement and learning objectives

This resource encourages students to apply their maths skills and knowledge within the context of financial sustainability. Students explore investments/whakangao, Insurance/inihua, KiwiSaver and retirement/whakatā.

This is an integrated, cross-curricular resource, supporting the theme **sustainability** and can be used in multiple ways. Related resources are available for health and social sciences.

Important readings:

* [**Financial sustainability resource introduction**](http://sortedinschools.org.nz/sorted-resources/financial-sustainability/)
* [**Pedagogy and methodology**](http://www.sortedinschools.org.nz/teachers/curriculum-info/pedagogical-design/) overview for the frameworks underpinning the development of this resource.

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| **Mathematics and statistics achievement objectives**  In a range of meaningful contexts, students will be engaged in thinking mathematically and statistically. They will solve problems and model situations that require them to:  **Level 4**  Number and Algebra   * Understand addition and subtraction of fractions, decimals, and integers * Find fractions, decimals, and percentages of amounts expressed as whole numbers, simple fractions, and decimals * Apply simple linear proportions, including ordering fractions * Know the equivalent decimal and percentage forms for everyday fractions * Know the relative size and place value structure of positive and negative integers and decimals to three places * Form and solve simple linear equations   Geometry and Measurement   * Convert between metric units, using whole numbers and commonly used decimals * Use side or edge lengths to find the perimeters and areas of rectangles, parallelograms, and triangles and the volumes of cuboids.   **Level 5**  Number and Algebra   * Reason with linear proportions * Understand operations on fractions, decimals, percentages, and integers * Use rates and ratios * Know commonly used fraction, decimal, and percentage conversions * Know and apply standard form, significant figures, rounding, and decimal place value * Form and solve linear and simple quadratic equations   Geometry and Measurement, Level Five   * Select and use appropriate metric units for length, area, volume and capacity, weight (mass), temperature, angle, and time, with the awareness that measurements are approximate * Convert between metric units, using decimals * Deduce and use formulae to find the perimeters and areas of polygons and the volumes of prisms * Find the perimeters and areas of circles and composite shapes and the volumes of prisms, including cylinders |
| **Specific learning objectives**  For a detailed list of specific learning objectives, please refer to the [**maths assessment rubric.**](http://sortedinschools.org.nz/sorted-resources/financial-sustainability/maths-assessment/) |

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