# **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
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| **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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