

How to use the Financial Sustainability Maths resources

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/whakata.

Exploring financial sustainability through maths and statistics is an integrated, cross-curricular resource and can be used in multiple ways. Related resources are available for health and social sciences.

There are a range of resources to choose from, so schools and teachers can design programmes that allow:

- Students to work at their own pace using a student planner

- Teachers to design a programme that suits department, faculty or whole-school planning over a few weeks or a term. This will vary from school to school.

Important readings:

- [Financial sustainability resource](#) introduction.

- [Pedagogy and methodology overview](#) for the frameworks underpinning the development of this resource.

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:

Number and Algebra, Level Four

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

Number and Algebra, Level Five

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 Four

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.

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
