# Foundation Mathematics

## Subject Guide

Mathematics is the study of patterns in numbers and space. It provides both a framework for thinking and a means of symbolic communication that is powerful and concise. Mathematics is a means by which people can understand and manage their environment. It has applications in all human activities and provides a universal way of solving problems in science, business and the Arts.

All students include at least one Mathematics subject in their VCE course of study.

Foundation Mathematics Units 3 and 4 focus on providing students with the mathematical knowledge, skills and understanding to solve problems in real contexts for a range of workplace, personal, further learning, community and global settings relevant to contemporary society.

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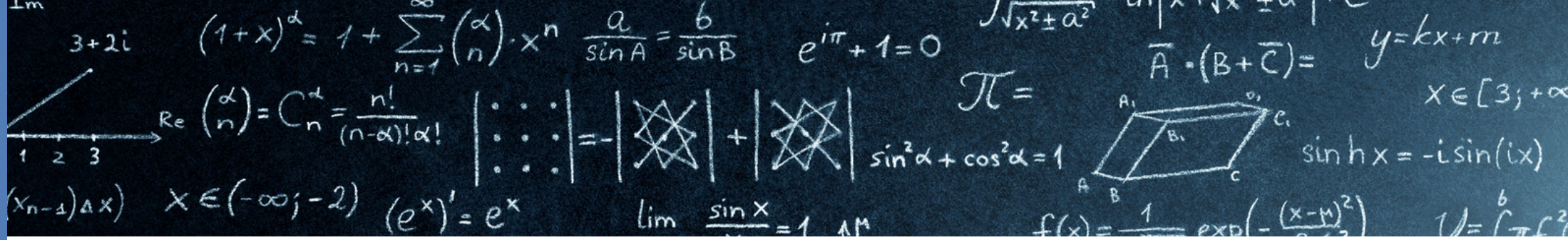

## Unit focus areas

### Unit 3

Algebra, number and structure

- Ratios and proportions
- Direct and indirect variation
- Equations and formulas
- Estimation and approximation

Probability and statistics

- Data collection
- Modelling and representation of data
- Interpreting of data
- Predictions

### Unit 4

Financial and consumer mathematics

- Money management
- Taxation system
- Income and expenditure
- Economic indicators

Space and measurement

- Application of metric system
- Measurement in domestic, societal, industrial and commercial contexts
- Calibration and error in measurement

## Pre-requisites

Year 12 students undertaking Units 3 and 4 Foundation Mathematics need to have completed a Unit 1 and 2 Mathematics.

Year 11 students wishing to take Foundation Mathematics Units 3 and 4 must be concurrently studying another Units 1 and 2 Mathematics. Approval from the Head of Department is required.

## Assessment

Students complete 3 Mathematical Investigations as part of the School-Assessed Coursework (60%) subject to external moderation, and an end-of-year examinations (40%).