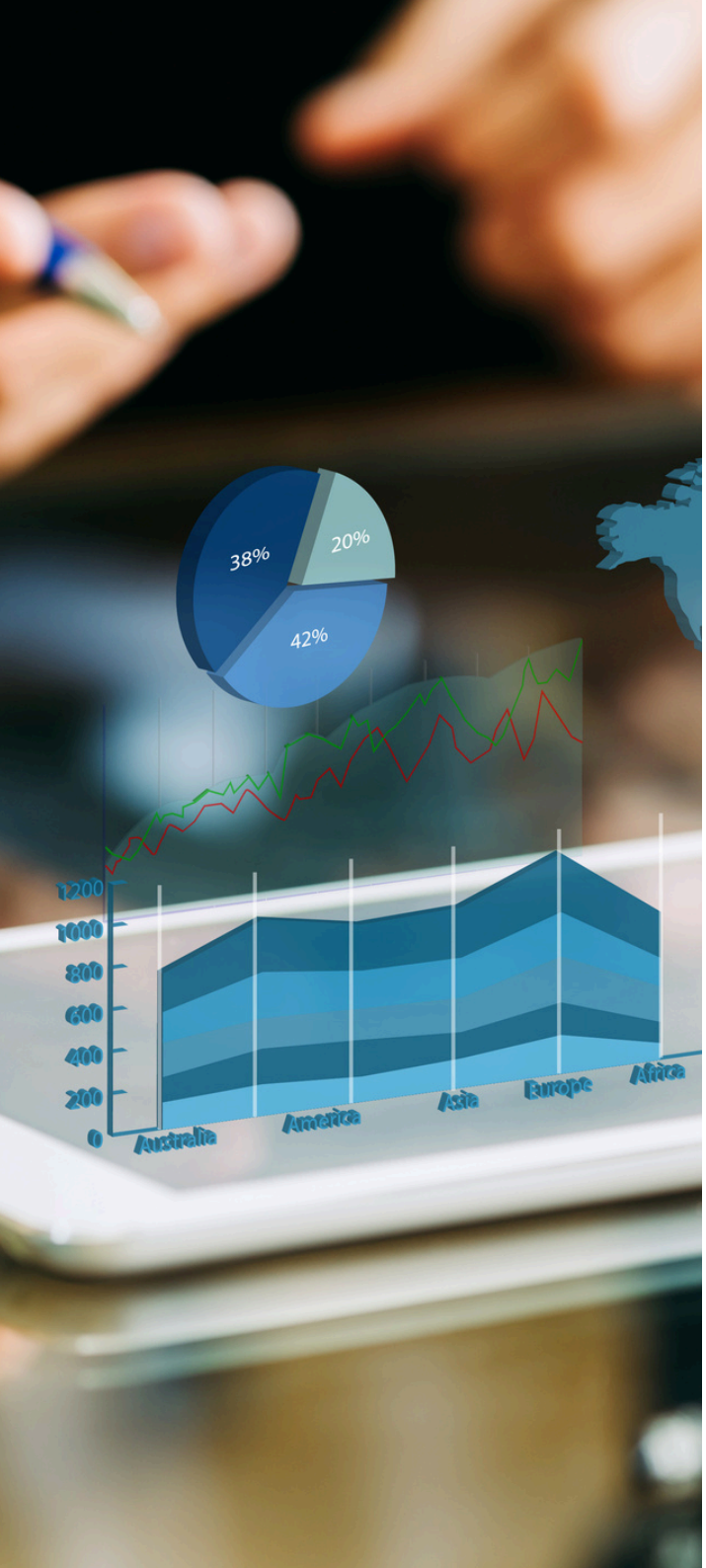

General Mathematics

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.

In this study, students have access to worthwhile and challenging mathematical learning activities. Students will learn and practise mathematical skills and techniques to find solutions to standard problems. They further extend their mathematical knowledge and skills through the use of computer algebra system technology. Students undertake investigative projects and solve problems in unfamiliar and real-life situations.

Mathematics Department
headofmathematics@haileybury.com.au

Unit focus areas

Unit 1

Comparing data distributions
Sequences and finance
Linear relations
Matrices

Unit 2

Relationships between numerical variables
Graphs and networks
Variation
Space, measurement, trigonometry

Unit 3

Data analysis
Recursion and financial modelling

Unit 4

Matrices
Networks and decision mathematics

Assessment

Students complete a range of outcomes and classwork throughout each semester. General Mathematics Units 1 and 2 students complete an examination at the end of each semester.

For Units 3 and 4, students complete School-Assessed Coursework (40%) subject to external moderation, and two end-of-year examinations (60%).

Pre-requisites

Students undertaking Units 1 and 2 General Mathematics need to have completed Year 10 Mathematics (or equivalent).

Students undertaking Units 3 and 4 General Mathematics need to have completed Units 1 and 2 General Mathematics or Mathematical Methods.

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