

---

---

# VCE UNITS INFORMATION

---

---

## VCE Mathematics – General Mathematics Units 1 and 2

### CONTENT

General Mathematics provides for different combinations of student interests and preparation for study of VCE Mathematics at the Units 3 and 4 level. The areas of study for General Mathematics Unit 1 and Unit 2 are ‘Algebra and Structure’, ‘Arithmetic and Number’, ‘Discrete Mathematics’, ‘Geometry, Measurement and Trigonometry’, ‘Graphs of Linear and Non-linear Relations’ and ‘Statistics’.

In undertaking these units, students are expected to be able to apply techniques, routines and processes involving rational and real arithmetic, sets, lists and tables, diagrams and geometric constructions, algebraic manipulation, equations and graphs with and without the use of technology. They will have facility with relevant mental and by-hand approaches to estimation and computation. The use of numerical, graphical, geometric, symbolic, financial and statistical functionality of technology is incorporated throughout each unit.

### OUTCOMES

For each unit, the student is required to demonstrate achievement of three outcomes. As a set these outcomes encompass all of the selected areas of study for each unit. For each of Unit 1 and Unit 2, the outcomes apply to the content from the areas of study selected for that unit.

- Students should be able to define and explain key concepts as specified in the selected content from the areas of study, and apply a range of related mathematical routines and procedures
- Students should be able to select and apply mathematical facts, concepts, models and techniques from the topics covered in the unit to investigate and analyse extended application problems in a range of contexts
- Students should be able to select and use numerical, graphical, symbolic and statistical functionalities of technology to develop mathematical ideas, produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques or approaches

### ASSESSMENT

All assessments at Units 1 and 2 are school-based.

Demonstration of achievement of Outcome 1 will be based on the student’s performance on a selection of the following assessment tasks:

- Assignments
- Tests
- Summary or review notes

Demonstration of achievement of Outcome 2 will be based on the student’s performance on a selection of the following assessment tasks:

- Modelling tasks
- Problem-solving tasks
- Mathematical investigations

Demonstration of achievement of Outcome 3 will be based on the student’s performance on aspects of tasks completed in demonstrating achievement of Outcomes 1 and 2 that incorporate opportunity for the effective and appropriate use of technology.