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# YEAR 10 SUBJECTS

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## Mathematics – VCE Foundation Mathematics Units 1 and 2

### CONTENT

Foundation Mathematics provides for the continuing mathematical development of students entering VCE and who do not necessarily intend to undertake Units 3 and 4 studies in VCE Mathematics in the following year. Students completing this course would need to undertake General Mathematics Units 1 and 2 in order to attempt Further Mathematics Units 3 and 4.

In Foundation Mathematics there is a strong emphasis on the use of mathematics in practical contexts encountered in everyday life in the community, at work and at study. The areas of study for Units 1 and 2 of Foundation Mathematics are ‘Space, Shape and Design’, ‘Patterns and Number’, ‘Data’ and ‘Measurement’.

### OUTCOMES

For each unit, the student is required to demonstrate achievement of three outcomes. 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 use and apply a range of mathematical concepts, skills and procedures from selected areas of study to solve problems based on a range of everyday and real-life contexts
- Students should be able to apply mathematical procedures to solve practical problems in both familiar and new contexts, and communicate their results
- Students should be able to select and use technology to solve problems in practical contexts

### ASSESSMENT

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

Demonstration of achievement of Outcomes 1 and 2 will be based on the student’s performance on a selection of the following assessment tasks:

- Investigations and projects; for example, a report on an application of mathematics such as costing of a birthday party, budgeting for a holiday, a survey of types of television programs or design of a car park
- Assignments, summary or review notes of mathematics that students have encountered in their work or study; for example, a written or a multimedia or an oral presentation of wages calculations, materials estimation for a task, personal budgeting
- Tests of mathematical skills developed across application contexts

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.