YEAR 10 SUBJECTS

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.