# Foundation Mathematics

## Units 1-2

Foundation Mathematics provides students with continuing support to develop a range of mathematical and numeracy skills related every-day problems encountered at home, work and the wider community. This subject is suitable for students who would like to strengthen their understanding and application of numbers, percentages, financial processes, measurement and statistics.

**UNIT 1**
In Unit 1 students consolidate mathematical foundations, further develop their knowledge and capability to plan and conduct activities independently and collaboratively, communicate their mathematical ideas, and acquire mathematical knowledge skills to make informed decisions in their lives. The areas of study for Foundation Mathematics Unit 1 are 'Algebra, number and structure', 'Data analysis, probability and statistics', 'Discrete mathematics', and 'Space and measurement'. The content is developed using contexts present in students' other studies, work and personal or other familiar situations.

**LEARNING ACTIVITIES**
Explicit instruction of theory and use of technology, textbook exercises, problem-solving and modelling, application of skills to real-world problems.

**KEY SKILLS REQUIRED**
Identify and recognise how mathematics is used in everyday situations and contexts, making connections between mathematics and the real world

**ASSESSED TASKS**
Formative tasks for each topic, application task SACs for each topic and a mathematical investigation task.

**UNIT 2**
In Unit 2 students work on extending breadth and depth in the application of mathematics to solving practical problems from contexts present in students' other studies, work and personal or other familiar situations.

**LEARNING ACTIVITIES**
Explicit instruction of theory and use of technology, textbook exercises, problem-solving and modelling, application of skills to real-world problems.

**KEY SKILLS REQUIRED**
Interpret results and outcomes of the application of mathematics in a context, including how appropriately and accurately they fit the situation and to reflect on and evaluate the mathematics used and the outcomes obtained relative to personal, contextual and real-world implications

**ASSESSED TASKS**
Formative tasks for each topic, summative SAC for each topic, and an end of year written examination.

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## Units 3-4

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. The selected content for each unit is developed using contexts present in students' other studies, work and personal or other familiar situations, and in national and international contexts, events and developments.

**UNIT 3**
In unit 3 students study numbers and equations, and the application of numbers to a range of financial and consumer mathematics related problems.

**LEARNING ACTIVITIES**
Explicit instruction of theory and use of technology, textbook exercises, problem-solving and modelling, application of skills to real-world problems.

**KEY SKILLS REQUIRED**
Identify and recognise how mathematics is used in everyday situations and contexts, making connections between mathematics and the real world

**ASSESSED TASKS**
Formative tasks for each topic, application task SACs for each topic and a mathematical investigation task.

**UNIT 4**
In Unit 2 students study the application of data analysis, probability and statistics, and problems relating space and measurement.

**LEARNING ACTIVITIES**
Explicit instruction of theory and use of technology, textbook exercises, problem-solving and modelling, application of skills to real-world problems.

**KEY SKILLS REQUIRED**
Identify and recognise how mathematics is used in everyday situations and contexts, making connections between mathematics and the real world

**ASSESSED TASKS**
Formative tasks for each topic, summative SAC for each topic.

**VCAA ASSESSMENT** - The overall Study Score will consist of:

- School Assessed Coursework (60%)
- Examination 1 in November (40%) - 120 minutes