Essential Mathematics

You will extend your mathematical skills in ways that apply to practical problem-solving in everyday and workplace settings. You will apply mathematics to diverse real-world contexts, including everyday calculations, financial management, business applications, measurement and geometry, and statistics.

**SACE Stage 1
two semesters**

Engage
Skills

In Essential Mathematics there is an emphasis on developing students' computational skills and expanding their ability to apply their mathematical skills in flexible and resourceful ways.

Students find solutions to mathematical problems that may:

- be routine, analytical, and/or interpretative
- be posed in a variety of familiar and new contexts
- require the discerning use of electronic technology

Extend
Knowledge

Stage 1 Essential Mathematics consists of the following five topics (not necessarily studied in this order):

Topic 1: Financial Mathematics

Topic 2: Statistics

Topic 3: Measurement

Topic 4: Geometry

Topic 5 (First form): Trigonometry & Pythagoras

Topic 5 (Second form): Numeracy

Topic 6 (First form): Ratio and Scale diagrams

Topic 6 (Second form): Project

Enrich
Experiences

Students are encouraged to participate in Senior Level Mathematics competitions:

- The Computational and Algorithmic Thinking Competition (CAT), from the Australian Mathematics Trust (AMT)
- The Australian Mathematics Competition (AMC), from The Australian Mathematics Trust (AMT)

Assessments/Outcomes

In each semester:
75%: Three Skills and Application Tasks (SATs);
25%: One Investigation Task;
0%: One formative examination.

Pathways

Stage 1 Essential Mathematics is intended for students planning to pursue a career in a range of trades or vocations. Stage 1 Essential Mathematics is offered in two forms: successful completion of the first form leads to Stage 2 Essential Mathematics in Year 12; successful completion of the second form concludes at the end of Year 11 with acquisition of Stage 1 SACE credits.

Walford