




General Mathematics



Year 11 at Walford

Her Way

You will extend mathematical skills in ways that apply to practical problem-solving. A problem-based approach is integral to the development of mathematical models using the associated key ideas in the topics covered. These topics include a diverse range of applications of mathematics, including personal financial management, measurement and trigonometry, the statistical investigation process, modelling using linear and non-linear functions, and discrete modelling using networks and matrices.

SACE Stage 1
two semesters

 Engage <i>Skills</i>	 Extend <i>Knowledge</i>	 Enrich <i>Experiences</i>
<p>Students select appropriate techniques or algorithms and relevant mathematical information to find solutions to routine and some analytical and/or interpretative problems.</p> <p>Students provide explanations and use correct mathematical notation, terminology, and representations throughout the task. Electronic technology may aid and enhance the solution of problems.</p> <p>Students find solutions to mathematical problems that may:</p> <ul style="list-style-type: none"> • be posed in a variety of familiar and new contexts • require discerning use of electronic technology. 	<p>Stage 1 General Mathematics consists of the following topics (not necessarily studied in this order):</p> <p>Topic 1: Investing and borrowing</p> <p>Topic 2: Measurement</p> <p>Topic 3: Statistical investigation</p> <p>Topic 4: Applications of trigonometry</p> <p>Topic 5: Linear and exponential functions and their graphs</p> <p>Topic 6: Matrices and networks</p>	<p>Students are encouraged to participate in Senior Level Mathematics competitions:</p> <ul style="list-style-type: none"> • 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	 Pathways
<p>In each semester:</p> <p>75%: Three Skills and Application Tasks (SATs);</p> <p>25%: One Investigation Task;</p> <p>0%: One formative examination.</p>	<p>Successful completion of this subject leads to Stage 2 General Mathematics or Stage 2 Essential Mathematics. Stage 2 General Mathematics prepares students for entry to tertiary courses requiring a non-specialised background in mathematics. Stage 2 Essential Mathematics is intended for students planning to pursue a career in a range of trades or vocations. Tertiary options from Stage 2 General Mathematics currently include some Engineering, Commerce (Accounting), and Computer Science degrees at some Universities.</p>