General Mathematics

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

Engage	Extend	Enrich
Skills	Knowledge	Experiences
 The focus is to develop a strong understanding of the process of mathematical modelling and its application to problem-solving in everyday workplace contexts. Students find solutions to mathematical questions that may: be routine, analytical, and/or interpretative be posed in a variety of familiar and new contexts 	Stage 2 General Mathematics consists of the following five topics (not necessarily studied in this order): Topic 1: Modelling with linear relationships Topic 2: Modelling with matrices Topic 3: Statistical models Topic 4: Financial models Topic 5: Discrete models	 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	Pathways
 40%: Five Skills and Application Tasks (SATs) (including the equivalent of one conducted without the use of notes or a graphics calculator); 30%: Two Investigation tasks (up to 12 pages each); 30%: SACE 130 minute examination on Topics 3, 4 & 5 only (use of a graphics calculator and one double-sided A4 page of hand-written notes is allowed). 	Career Pathways: Stage 2 General Mathematics prepares students for entry to tertiary courses requiring a non-specialised background in mathematics. Tertiary options currently include some Engineering, Commerce (Accounting), and Computer Science degrees at some Universities.



Year 12 at Walford

SACE Stage 2

20 Credits

Her Best