






# Essential Mathematics

Year 12 at Walford  
*Her Way*

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

## SACE Stage 2

 <b>Engage</b> <i>Skills</i>	 <b>Extend</b> <i>Knowledge</i>	 <b>Enrich</b> <i>Experiences</i>
<p>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.</p> <p>Students find solutions to mathematical problems that may:</p> <ul style="list-style-type: none"> <li>• be routine, analytical, and/or interpretative</li> <li>• be posed in a variety of familiar and new contexts</li> <li>• require the discerning use of electronic technology</li> </ul>	<p>Stage 2 Essential Mathematics consists of the following five topics (not necessarily studied in this order):</p> <p>Topic 1: Scales, plans, and models</p> <p>Topic 2: Measurement</p> <p>Topic 3: Business applications</p> <p>Topic 4: Statistics</p> <p>Topic 5: Investments and loans</p>	<p>Students are encouraged to participate in Senior Level Mathematics competitions:</p> <ul style="list-style-type: none"> <li>• The Computational and Algorithmic Thinking Competition (CAT), from the Australian Mathematics Trust (AMT)</li> <li>• The Australian Mathematics Competition (AMC), from The Australian Mathematics Trust (AMT)</li> </ul>

 <b>Assessments/Outcomes</b>	 <b>Pathways</b>
<p>30%: Five Skills and Application Tasks (SATs) (including the equivalent of one conducted without the use of notes or a graphics calculator);</p> <p>40%: Two Investigation tasks (up to 12 pages each);</p> <p>30%: SACE 130 minute examination on Topics 2, 4 &amp; 5 only (use of a graphics calculator and one double-sided A4 page of hand-written notes is allowed).</p>	<p>Year 12 Stage 2 Essential Mathematics is intended for students planning to pursue a career in a range of trades or vocations.</p>