



<b>A LEVEL</b> OCR <a href="#">H245</a>	<h1 style="text-align: center;">FURTHER MATHEMATICS</h1>
SPECIFIC ENTRY REQUIREMENTS	<p>This option is chosen in addition to A-Level mathematics, as it builds on work covered on that course. Further mathematics is aimed at students achieving at least grade 7 in GCSE mathematics.</p>
COURSE CONTENT	<p>This course provides an introduction to the mathematics of new topics such as complex numbers, matrices, polar co-ordinates and hyperbolic functions that are not studied as part of the standard A-Level course. Other topics, such as calculus, are taken much further, and explored to a greater depth. Students will study mechanics and statistics, as with the single A-Level, but again in more depth.</p>
EXAMINATIONS AND ASSESSMENTS	<p>Assessment will be four papers of 90 minutes. These will be Pure Core One and Two, assessing the pure maths content, a statistics paper, and a mechanics paper.</p>
SKILLS, LINKS AND PROGRESSION	<p>The further mathematics course extends what students can study. It increases the level of depth, rigour and complexity. This gives a broader range of skills appropriate to the study of mathematics, physics or engineering. Students who apply to study mathematics at top universities are expected to have chosen further mathematics if it was available at their school. The course will also give students of physics and engineering a very high degree of mathematical confidence and competence, and there is overlap with some first year university courses. Our students speak highly of the journey that this course takes them on.</p>
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