Stretford Grammar School

Aspirat primo fortuna labori

Mathematics

Examination Board: AQA
Examination Code: 8300

Outline of the Course	**You will learn about:** 1. Number 2. Algebra 3. Ratio, proportion and rates of change 4. Geometry and measures 5. Probability 6. Statistics
What will you learn?	**Number:** Properties of numbers and calculations. **Algebra:** Manipulation; formulae; equations and inequalities; graphs; sequences. **Ratio, proportion and rates of change:** Using ratios; scale factors; ratio problems; direct and inverse proportion; gradients. **Geometry and measures:** Properties of shapes and angles; length, area and volume; Pythagoras' theorem; trigonometry; vectors. **Probability and Statistics:** Calculating probabilities; collecting, processing and analysing data.
How will I be assessed?	Three 1½ hour examination papers, taken at the end of the course. There is no coursework or controlled assessment. On each paper, there will be a mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as you progress through the paper. One paper is a non-calculator paper. You will be prepared for the Higher Tier examinations.
Mark Breakdown	Each paper is worth 33⅓% of the final mark and can assess any part of the course.

	Over the three papers, the content breaks down as follows: Number 15%; Algebra 30%; Ratio, proportion and rates of change 20%; Geometry band measures 20%; Probability and Statistics 15%. The Higher Tier covers grades 4 to 9.
Website links	www.aqa.org.uk
Key Dates	Exams: May/June of Year 11
Further Information	Mr. C. McAvoy - Curriculum Leader Mrs. C. Mycock – Second in Department Mr. O. Chadbond - Subject Teacher and Exams Officer Mrs. K. Carter – Subject Teacher Miss M. Patra – Subject Teacher Mr. S. Ahmad - Subject Teacher c.mcavoy@stretfordgrammar.com
What can I do after I have completed the course?	GCSE Mathematics is an essential qualification for application to university and for most careers. By gaining the qualification, you not only show yourself to be numerate, but that you are able to approach any problem in a logical and analytical way. Mathematics as a qualification is key to a number of employment opportunities later on. These can range from engineering in its many forms to health related jobs and veterinary science.