

Mathematics

A Level

Exam Board: AQA

Subject Specific Criteria:

- Grade 7 in Mathematics
- Grade 4 in English Language

Units Studied:

Pure Mathematics; Statistics; Mechanics

Course Information: Maths is a linear course comprising of Pure and Applied content.

The full A Level (single) Maths course is assessed by 100% exam, and you will sit three 2hour papers for each module. There is no coursework.

Two-thirds of the qualification is made up of Pure Core Maths, which provides techniques in Algebra, Geometry, Trigonometry and Calculus - the fundamental building blocks of this subject.

Mechanics and Statistics make up the remaining third of the qualification. In Mechanics, you will study Kinematics, Forces and Newton's Laws, and in Statistics, you will study data presentation and interpretation, probability, testing hypotheses and statistical sampling.

Skills Required:

- Firstly, you must really enjoy problem solving and be proactive with your learning.
- Secondly, you must be able to work independently - that means doing a lot of your learning outside of lessons.
- Thirdly, you must be really good at algebra.....

.....can you solve a quadratic equation?
complete the square?.....work with fractions?do you know what a surd is and can you simplify it, rationalise it?....can you factorise an expression?.....

.....these skills are really important to help you succeed; you really have to know how to do these things without really having to think about it!

A Level Maths provides students with a thorough grounding in the mathematical tools and techniques often needed in the workplace. The logic and reasoning skills developed by studying A Level Maths makes sure the qualification is widely respected even in non-mathematical arenas.

Futures:

Maths opens doors to University courses. If you want to study any science based course, including medicine, engineering, computing, maths is a must. It is also good to have if you are thinking about law, psychology, economics, business studies and architecture

Since maths is one of the most traditional and hardest subjects, a good grade in maths can boost an application for pretty much every course and job you might want to apply for

Maths can earn you more money! Mathematics graduates earn, on average, a significant amount higher than the average starting salary.

Subject Enrichment:

Opportunities could include competing in UKMT challenges and attending talks through the FMSP programme.

