



Double Mathematics (Mathematics and Further Mathematics)

Two AS level courses in the first year (AS Mathematics & AS Further Mathematics).

Two A level courses in the second year (A2 Mathematics & A2 Further Mathematics).

Requirements:

The College minimum to start an advanced level course is one grade B and four grade Cs at GCSE.

Students wishing to undertake this course require grade A or A* in GCSE Mathematics and generally high grades in other subjects.

This subject will focus on:

- Pure mathematics – algebra, trigonometry, calculus etc;
- Mechanics – the mathematics of force and motion;
- Statistics – the mathematics of data and probability; and
- Decision mathematics – the mathematics of algorithms and optimisation.

You can expect to:

- widen and deepen your understanding of mathematical concepts;
- learn to use and apply a wide range of mathematical techniques;
- use and interpret mathematics in modelling situations based on the real world; and
- have nine hours of maths lessons each week.

Method of assessment:

Assessment is by examination.

Progression

Most technology needs a high level of mathematics. Computers, TVs, washing machines and telecommunication systems all require the application of mathematics to ensure they work. Internet security depends on prime numbers. People with mathematical qualifications at A level or above have excellent career prospects. They work in areas such as education, finance, government, science and sport. Good Mathematicians are always in demand.

A level Mathematics and Further Mathematics is usually taken by students considering studying Mathematics or Engineering at university. Mathematics graduates have become defence analysts, sporting professionals and sound engineers.

Other information:

A former student said, "Mathematics, rightly viewed, possesses not only truth, but supreme beauty."

Further Maths had a 100% pass rate at AS and A level in 2008.