MATHEMATICS

Examination Board: Edexcel

Why study Maths?

If you enjoy solving problems, love algebra, are capable of logical deduction and can apply your skills to a variety of different areas of Maths, then Maths at A Level is for you! We are looking for students who are hardworking, highly motivated and who love working with numbers and algebra, in and out of school, because A Level Maths can be a challenging and demanding course.

We encourage our students to take part in the UK Senior Maths Challenge held every year in November; then in the summer term there is the opportunity to attend a maths event at the University of Bath.

Where does it lead?

A Level Maths is valuable for careers in medicine, social sciences, computing, business, engineering and physics. The creativity and logical thinking skills you will develop with Maths will be welcome in any area of our rapidly changing world.

Course Content

A Level Mathematics has three overarching themes – problem solving, mathematical modelling and proof.

The following components will be studied:

Pure Maths – Algebra, coordinate geometry, sequences and series, trigonometry, exponentials and logarithms, differentiation, integration, numerical methods, vectors.

Statistics – Sampling, data presentation and interpretation, probability, distributions, hypothesis testing.

Mechanics - Kinematics, forces and Newton's Laws, moments.

Course Assessment

There are three 2 hour examination papers at the end of Year 13 which are equally weighted and a calculator can be used in all of them. The papers are:

- Paper 1 Pure Mathematics 1
- Paper 2 Pure Mathematics 2
- Paper 3 Statistics and Mechanics

For further information, please contact Mrs Spencer, Mr Cobb or Mrs Cobb

