A Level Mathematics (AQA)

What does this course involve?
The Mathematics course builds on many concepts studied at GCSE, as well as introducing new concepts. Students will extend their range of mathematical skills and techniques and use them in a variety of contexts. All of the units within the course are designed to ensure students understand the need to use appropriate techniques within models of real world situations, use mathematics as an effective means of communication and develop skills in problem-solving and organisation.

What will I study?
Students study Pure Mathematics and Applied Mathematics.

The principal components of Pure Mathematics are:

- Algebra and functions
- Coordinate geometry
- Trigonometry
- Calculus
- Sequences and series

The Applied Mathematics units are Statistics and Mechanics Mathematics.
Statistics includes:

- Representation and summary of data
- Probability
- Correlation and regression
- Discrete random variables
- The Normal distribution

Mechanics Mathematics includes:

- Kinematics
- Newton's Laws
- Vectors
- Momentum
- Moments

How is the course assessed?
Examination papers are split into three units of 90 minutes which covers Pure Mathematics in three even parts. Mechanics is included in Paper 2 and Statistics in Paper 3.