Course Title: A Level Maths	**Exam Board:** AQA	**Specification Code:** 7357

How will students be assessed?

A level Mathematics is a linear course which is formally assessed at the end of year 13 with three examinations. Each exam is marked out of 100 and lasts for 2 hours. The papers are all calculator papers and are equally weighted, each being worth 33% of the final mark. Each paper has a mix of question styles varying from short single mark questions to longer unstructured questions. Paper one examines Pure Mathematical methods only. Paper two examines topics from Pure Mathematics and Mechanics, paper three is Pure Mathematics and Statistics.

Throughout the course students will be informally assessed using regular topic tests and more formally with termly papers utilising exam questions.

The A level syllabus requires students to demonstrate their skills and knowledge through the application of problem-solving techniques and with the use of clear, precise and appropriate mathematical language.

KEY CONTENT Delivered by two teachers, one delivering pure content and the other applied.

Half Term 1

Core content:

Coordinate geometry

Differentiation

Integration

Applied content:

Vectors

Kinematics

Half Term 2

Core content:

Recap Surds and Quadratic equations

Polynomials - dividing and factor theorem

Exponentials and logarithms

Modelling with logarithms

Trigonometry

Applied content:

Forces and Newton's Laws

Differentiation from first principles

Variable acceleration

Half Term 3

Core content

Binomial expansions

Equation of a circle

Simultaneous equations and the discriminant

Inequalities

Applied content:
Sampling
Data presentation and interpretation
Probability

Half Term 4
Core content
Transformations
Proof and set notation
Applied content:
Binomial distributions
Working with a large data set

Half Term 5
Core content
Problem solving
Begin Year 13 content:
Applied content:
Hypothesis testing

Half Term 6
Begin Year 13 content:
Further differentiation, including the product rule, the quotient rule and the
chain rule.
Radians and further trigonometry
Functions