



# Blue Coat Church of England Academy

**Year: 12/13**

**Subject: A-Level Maths**

## Overview

The two-year A-Level Mathematics course allows pupils to build on Higher Tier knowledge from Key Stage 4, develop their problem solving and analytical skills as well as increasing pupil's ability to think logically. Pupils begin to understand the relationship between real world problems and mathematical models and use a wide range of skills and techniques to solve them.

Formally assessed by Edexcel at the end of Year 13, pupils complete three two-hour long calculator papers: Paper 1 (Pure Maths 1), Paper 2 (Pure Maths 2) and Paper 3 (Statistics and Mechanics). Pupils are regularly assessed during lesson time over the course of the academic year to monitor progress.

Pure Maths Content (66% weighting)	Statistics Content (17% weighting)	Mechanics Content (17% weighting)
Algebraic proof Algebra and functions Coordinate geometry in the $(x, y)$ plane Sequences and series Trigonometry Exponentials and logarithms Differentiation Integration Numerical methods Vectors	Statistical sampling Data presentation and interpretation Probability Statistical distributions Statistical hypothesis testing	Quantities and units in mechanics Kinematics Forces and Newton's Laws Moments

Pupils have access to the MathsWatch VLE and Integral websites to assist with independent learning and to revisit class content on a regular basis.

Further exam board information and guidance can be gained from:

<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-mathematics-specification.pdf>