



St Paul's Catholic School

MATHEMATICS

Entry Requirements

Generic A-Level entry requirements plus mathematics GCSE at Grade 6 or above.

Mathematics A level Specifications For first teaching Sept 2017– OCR (MEI)

The full specification can be accessed from the link below. We do not offer an AS level in Mathematics at St Paul's any longer. For the new A levels, however, the AS course is exactly identical to the year 12 scheme of study.

<http://ocr.org.uk/qualifications/as-a-level-gce-mathematics-b-mei-h630-h640-from-2017/>

CONTENT AREA	CONTENT OVERVIEW
1 PURE MATHEMATICS	AS & A level: Pure mathematics includes proof, algebra, graphs, sequences, trigonometry, logarithms, calculus and vectors. A level only: Learners study these topics in more depth and also study functions, numerical methods and differential equations.
2 MECHANICS	AS & A level: Mechanics includes kinematics, working with forces and Newton's laws. A level only: Learners study these topics in more depth and also study motion under gravity, friction and simple moments.
3 STATISTICS	AS & A level: Statistics includes working with data from a sample to make inferences about a population, probability calculations, using a binomial distribution as a model, and statistical hypothesis testing. A level only: Learners study these topics in more depth and also study the Normal distribution. There is a pre-release data set for both AS and A level. The purpose of the large data set is that learners experience working with real data in the classroom and explore this data

Extract from "Stay ahead of the curve – new linear A levels in Maths and Further Maths" published by OCR & MEI

Assessment of A-Level

COMPONENT	MARKS	DURATION	WEIGHTING
Paper 1: Pure Mathematics and Mechanics (01) Section A – shorter questions with minimal reading and interpretation. Section B – longer questions and more problem solving.	100	2 hours	36.4%
Paper 2: Pure Mathematics and Statistics (02) Section A – shorter questions with minimal reading and interpretation. Section B – longer questions and more problem solving. Some questions will be set on the pre-release data set. These questions should give a material advantage to learners who have studied, and are familiar with, the prescribed large data set.	100	2 hours	36.4%
Paper 3: Pure Mathematics and Comprehension (03) Component 03 assesses content from area 1 (areas 2 and 3 are assumed knowledge). Section A – 60 marks on the pure core content. Section B – 15 marks on a previously unseen comprehension passage based on the pure mathematics content of the specification.	75	2 hours	27.3%

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