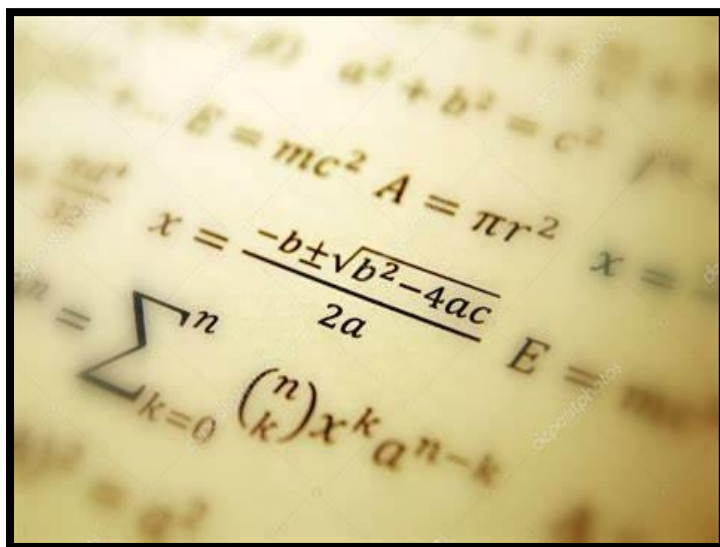




CHURCHMEAD SCHOOL

BELIEVE TO ACHIEVE

Mathematics



For additional information please contact or visit:

Mr Sedlacek, Head of Department:

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Exam Board: Pearson Edexcel
Specification Number: 9MA0

Entry Requirements:

You need to get a minimum grade 6 in Maths GCSE

Why study A Level Mathematics?

There are uses for mathematics in all the pure sciences, such as: Biology, Chemistry, and Physics; the Social Sciences, such as: Economics, Psychology, Engineering fields, such as Civil Mechanical and Industrial Engineering; and Technological fields such as: computers, rockets, and communications. Mathematics is even used in the arts, such as: sculpture, drawing, and music. Mathematics will therefore facilitate an almost unlimited number of opportunities, for you, and open doors that few other subjects can.

Course Requirements

The Pearson Edexcel Advanced GCE, in Mathematics, will be assessed by three externally examined papers, each which are 2 hours in duration. Students studying this course, are expected to have achieved at least a grade 6 in GCSE Mathematics.

Course outline

Unit	Brief Description
Pure 1	Proof. Algebra and functions, coordinate geometry in the (x,y) plane, sequences and series, trigonometry, exponentials and logarithms, differentiation, integration, vectors.
Pure 2	Further proof, further algebra and functions, further coordinate geometry in the (x,y) plane, further sequences and series, further trigonometry, further differentiation, further integration, numerical methods.
Statistics and Mechanics	Statistical sampling, data presentation and interpretation, probability, statistical distributions, statistical hypothesis testing. Quantities and units in mechanics, kinematics, forces and Newton's laws, moments.



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What can I do to prepare?

Prior of deciding about studying A-level Maths as one of your levels, you need to thoroughly consider the following:

Enjoyment: Your enjoyment of Maths and your motivation in Maths will be major factors in your eventual success.

Natural flair: You must already have shown ability in Maths if you are to succeed at A level.

Self-discipline: Studying A-level Maths at Churchmead, is not the easiest way of spending your following two years. It is important to realise that topics do not run on smoothly from their matching GCSEs. You will be expected to work outside the classroom, on your own individual studies, and we expect you to put in a minimum of four hours of personal study per week.

Thank you for expressing an interest in studying Mathematics in Churchmead School Sixth Form. Churchmead School Maths Department is committed to ensuring that you make good progress throughout your A level course.

Link to specification:

<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-mathematics-specification-issue4.pdf>