



Gordon's
Sixth Form

Mathematics

AS Level and A Level

So you think you want to study Mathematics beyond GCSE...

Ask yourself the following questions:

- Do I enjoy Mathematics?
- Is Mathematics my best subject?
- Do I thrive on a challenge?
- Do I need an AS or A Level in Mathematics for my chosen career or University course?
- Do I want to increase my earning power?

If the answer to these questions is YES, then read on...

The Specification

The new specification for AS and A Level Mathematics aims to encourage students to:

- Develop their understanding of mathematics and mathematical processes.
- Develop their ability to reason logically, to generalise and to construct mathematical proofs.
- Use mathematics as an effective means of communication.

What subjects will I study?

Pure Mathematics is concerned with algebra and functions, coordinate geometry, sequences and series, trigonometry, exponentials and logarithms, calculus and vectors.

Statistics is the study of probability and the presentation and analysis of data.

Mechanics applies mathematics to kinematics, statics and dynamics.

The courses available to students are as follows:

AS Level Mathematics (Year 12)

Students will study two units:

Paper 1 Pure Mathematics

Paper 2 Statistics and Mechanics

A Level Mathematics (Year 13)

Students will study three units:

Paper 1 Pure Mathematics 1

Paper 2 Pure Mathematics 2

Paper 3 Statistics and Mechanics

Further Mathematics

We are able to offer this to our most able Mathematics students. Students will complete an A Level in Mathematics in Year 12 and then complete an A Level in Further Mathematics in Year 13.

See our separate leaflet for further details.

At Gordon's School we have a knowledgeable and committed team of teachers who have a wide range of experience both in the teaching of Mathematics as well as in its application in industry.

Results 2018

This summer's Mathematics A Level results were excellent.

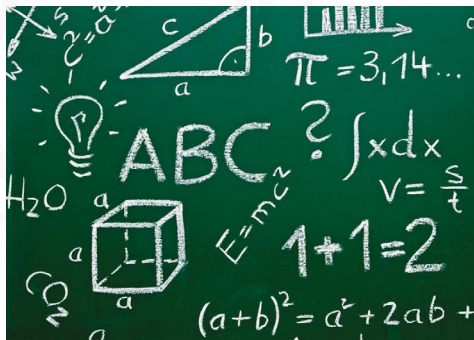
We achieved a 100% pass rate, with 66% of our students achieving either a grade *A** or a grade *A* and 95% of our students achieving a grade *A*-C*.

Well done to all our students.

Careers

In virtually all areas of science, industry and commerce Mathematics plays a key role.

If you are thinking of pursuing a career in professions as diverse as accountancy, engineering, architecture, medicine or IT, then an AS or A Level in Mathematics will be invaluable.



Celebrities who have studied Mathematics

Carol Vorderman, Rachel Riley, Dara O’Brain, Dave Gorman, Jonny Buckland (Coldplay), Brian May, Virginia Wade, Glen Johnson

Frequently Asked Questions

What GCSE Maths grade will I need to do the course?

A minimum of a grade 7. Students will also need to be successful in the bridging test at the start of the course in September 2019.

Which exam board syllabus do you follow?

Edexcel.

How will I be assessed?

Year 12 AS Level		
<i>Paper 1</i>	<i>2 hours</i>	<i>100 marks</i>
<i>Paper 2</i>	<i>1 ¼ hours</i>	<i>60 marks</i>

Year 13 A Level		
<i>Paper 1</i>	<i>2 hours</i>	<i>100 marks</i>
<i>Paper 2</i>	<i>2 hours</i>	<i>100 marks</i>
<i>Paper 3</i>	<i>2 hour</i>	<i>100 marks</i>

Mathematics Degrees

Subjects to study at A Level:

Entry requirements for Mathematic degrees usually only emphasise an academic background in Mathematics. Applicants may be required to have studied some or all of the following: Further Mathematics, Pure Mathematics, mechanics and complex numbers.

Experience of studying other scientific subjects may also be welcomed, and can help provide an additional dimension to your studies. Some universities in the UK (such as Cambridge and Warwick) require students to take the Sixth Term Examination Papers (known as the STEP exam) or the Advanced Extension Award (AEA).

Mathematics Careers

- Actuary
- Financial analyst
- Statistician
- Meteorologist
- Secondary school teacher
- Accountant
- Insurance underwriter
- Banking
- Stockbroker
- Economist

Mathematics degrees have an excellent reputation and are very popular amongst employers because graduates are numerate and logical with good problem solving skills.

When are the exams?

Each paper will be examined in the summer term in May/June.

If you need any further information, please contact:

*Mr Gary Knight,
Head of Mathematics at Gordon’s School*

© Mathematics Department Gordon’s School, 2018



*Gordon's School
Bagshot Road
West End
Woking
Surrey
GU24 9PT*

*www.gordons.school
01276 858084*