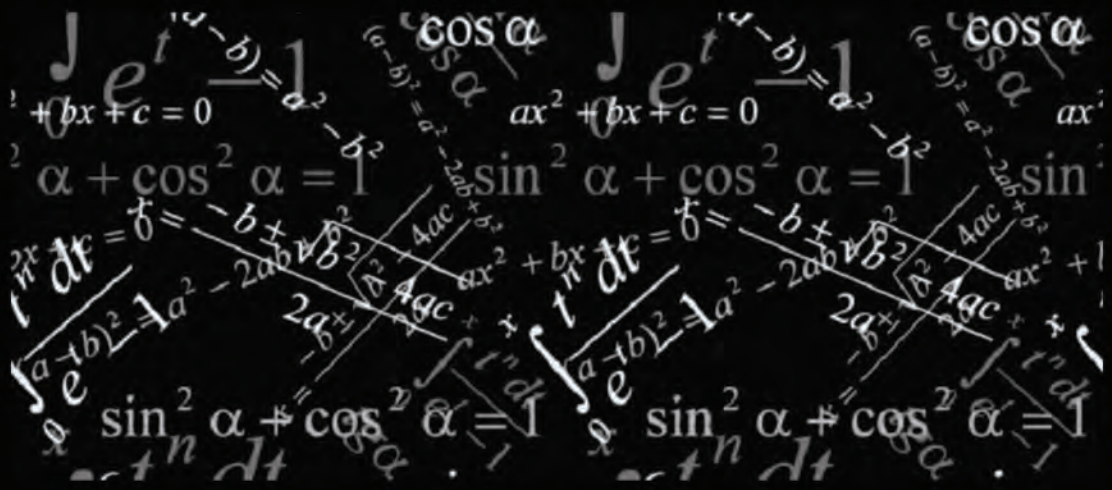
The Wellington Academy 6th FORM

proud to be part of ROYAL WOOTTON BASSETT ACADEMY TRUST

6th Form Courses

MATHEMATICS



- How do particles interact under gravity?
- How and why do populations grow?
- What mathematical principle links velocity and distance?
- Is it possible to use graphs to model any scenario?

By studying Mathematics, you will be able to learn all these things and more!

"A Level Maths is tremendously important. It provides a foundation for all scientific, technical, engineering and mathematical careers and a flying start for many other types of career such as finance, medicine, agriculture...the list is endless"

The Institute of Mathematics

A Level Mathematics

What is the course like?

It all comes down to what maths is.

- Maths uses its own language, which is made up from numbers, symbols and formulas.
- To explore the rules, we need to measure or identify essential problems like distance, speed, time, space, change, force and quantities.

Course content

- Proofs, Algebra and functions, Coordinate Geometry, 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

Entry requirement

A grade 6 or above in GCSE Mathematics

Duration

2 years – A Level Maths or Further Maths

How will I be assessed?

There are 3 exams each lasting 2 hours. These are sat at the end of the school year.

For Maths, the first 2 papers are on Pure Mathematics and paper 3 is on Statistics and Mechanics.

For Further Maths, the first 2 papers are on Core Pure Mathematics and papers 3 and 4 are Further Mathematics. The Further Mathematics papers are optional papers and students are required to choose two out of the following four topics.
The topics are:

- Further Pure Mathematics
- Further Statistics
- Further Mechanics
- Decision Mathematics

Where does it lead?

Upon completion of your A level, you will be equipped for Higher Education at University. It will equip you for a wide range of careers including: accounting, medicine, engineering, forensic pathology, finance, business, teaching, IT, games development, scientific research, programming, civil service, design and construction to name but a few.

Is this course suitable for me?

According to bestcourse4me.com, the top seven degree courses taken by students who have an A Level in Maths are:

- Maths
- Economics
- Physics
- Accounting
- Mechanical Engineering
- Computer Science
- Chemistry

Additional Information

Studying Maths helps predict the future….

But it doesn't stop there; as a subject, Maths is also continually growing and changing. Mathematicians and scientists expand on what they already know to discover new theories and inventions.

How to Apply

- Complete and return an application form. Application forms are available from the Wellington Academy website: www.thewellingtonacademy.org.uk.

- Your completed application should be returned to Dave Bissington, Head of 6th Form, this can be done either via your tutor (if internal) or delivered to the school reception.

- Alternatively please complete an online form, found under 2021 – Applications on the 6th Form tab.

- You will have an individual course consultation, during which provisional courses will be agreed.

- The offer of the course will be conditional upon you meeting the required entry grades, any subject specific criteria and having a suitable reference from your previous school.

- Your final interview will be held immediately after you have received your GCSE results. This is when your actual offer is negotiated and confirmed.

www.wellingtonacademy.org.uk

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