

Mathematics - A Level Intensive

Mathematics allows you to think logically and analytically, developing resilience and both strategic and creative problem-solving techniques. As technology advances, so too does maths, with new theories being discovered and developed every day, enabling new inventions and scientific discoveries.

WHAT WILL I STUDY?

Topics covered can include:

- Pure Maths
- Proof
- Algebra and functions
- Coordinate geometry in the (x, y) plane
- Sequences and series
- Trigonometry
- Exponentials and logarithms
- Differentiation
- Integration
- Numerical methods
- Vectors
- 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

WHAT WILL I NEED?

For applicants who are under the age of 18, the standard A Level programme is recommended. However, applicants aged 18 and over will be considered for the A Level Intensive course if they have already proven a record of achievement at A level or an equivalent level 3 qualification e.g. Grade D achieved in A Levels

Start Date: 1 September 2025

Duration: 1 Year

Attendance: Full Time

Center: King's Cross Centre

<https://www.capitalccg.ac.uk/course/pdf/11610/>

To study this A Level Intensive, you will need:

- A proven track record of achievement at A level or an equivalent level 3 qualification e.g. Grade D achieved in previous A Levels
- GCSE Maths at grade 6
- GCSE Science at grade 5-5 or above
- GCSE English Language at grade 5
- One further GCSE at grade 4 or above
- Admission onto this course is subject to passing an entrance test set at AS level
- A reference from your previous school/college

All applicants must take an entry test and have an interview to confirm that the course is suitable for them.

HOW WILL I BE ASSESSED?

During the year there will be formal internal assessments which you will need to pass in order to be entered into the final three public examinations.

WHAT WILL IT COST?

AGED 16-18

If you will be aged 16, 17 or 18 on 31st August prior to the start date of your course and you have the legal right to remain in the UK for the duration of your programme then your study with us will be free. Please see [here](#) for the documents you will need to show us.

Some courses will have other associated costs, such as for specialist materials and trips. Many of our students are eligible for financial support, see [here](#) for details.

ADULTS - LEVEL 3

If you will be aged 19 to 23 prior to the start date of your course, and do not already have a full Level 3 qualification, you may be eligible for a Level 3 entitlement, in which case your study with us will be free. If you are older, or already have a Level 3, we have many other Level 3 courses that are also [free](#) to study. Otherwise, you will have to pay the fees yourself or apply for an [Advanced Learner Loan](#).

Please see [here](#) for the documents you will need to show us.

Some courses will have other associated costs, such as for specialist materials and trips. Many of our students are eligible for financial support, see [here](#) for details.

WHAT CAN I DO AFTER?

A Levels are widely regarded as the standard entry qualification for top universities in the UK, and the rest of the world. Many of our students go onto study for a degree at the university of their choice, with some choosing to progress into apprenticeships or other employment.

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