

A Level Maths

What does this qualification cover?

The A level Mathematics course at UTC Heathrow continues to build on the knowledge learnt in Key Stage 4. We continue to use Edexcel allowing students to develop an understanding of mathematics and mathematical processes, develop the ability to reason logically and construct mathematical proofs, and understand coherence and progression in mathematics and how different areas of mathematics can be connected.

A-Level Mathematics will cover the following content headings:

Pure:	Statistics:	Mechanics
Proof, Algebra and functions, Coordinate geometry in the (x, y) plane, 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,

What's included?

Content is split across the papers so that any topic can appear on any paper.

Key features

The A-level Mathematics will consist of 3 papers, there are 2 Pure Mathematics papers and 1 Statistics and Mechanics. Calculators are allowed to be used in the examination and we recommend using a graphical calculator which you will be shown how to use. Each paper is a 2-hour written examination, worth a 100 marks and equally weighted. Students will have to be proficient with a large data set as this will form a part of the assessment.

Links to workplace

A good A level qualification in mathematics is highly sought after by employers.

Careers that will utilize mathematics include:

- Careers in finance including accountancy, actuary, banking and statistical analysis
- Sciences
- Engineering
- Architecture
- Medicine
- Computing

Having a solid A-level mathematic qualification will open access to many routes of study at post 18.