

Topics for the A Level Mathematics Entrance Exam

All of the questions in the exam come from the content of the GCSE syllabus.

The exam will be 1 hour in length and is a non-calculator exam.

Expressions

- Simplifying
- Expanding
- Factorising

Equations

- Linear
- Quadratic (solve by factorising, completing the square and using the formula)
- Simultaneous (both linear and 1 linear and 1 quadratic)
- Equations containing algebraic fractions

Formulae

- Changing the subject
- Substitution

Functions

- Function notation
- Substitution of numbers into a function
- Range

Indices

- Using the laws of indices
- Evaluating numbers given in index form

Graphs

- Gradient
- midpoints
- Equation of a straight line, $y=mx+c$

Geometry

- Pythagoras
- Trigonometry
- Sine and Cosine Rules