



# Mathematics

**Course title** – A-Level Maths

**Exam board** – AQA

**Qualification title** – Mathematics 7357

**Specification link**

<http://www.aqa.org.uk/subjects/mathematics/as-and-a-level/mathematics-7357/specification-at-a-glance>

**Unit titles**

The 2017 A-Level qualification is linear. Linear means that students will sit all their exams at the end of the course. Exams will consist of a variety of questions across the subjects below (3 exams of 2 hours equally weighted).

**Unit descriptions**

Mathematical argument, language and proof; mathematical problem solving; mathematical modelling; proof; algebra and functions; coordinate geometry in the (x,y) plane; sequences and series; trigonometry; exponentials and logarithms; differentiation; integration; vectors; statistical sampling; data presentation and interpretation; probability; statistical distributions; statistical hypothesis testing; kinematics; forces and Newton's laws; and moments.

**Entry Requirements**

To study A-Level mathematics you must have achieved at least a grade 6 at GCSE and a good understanding of the algebra topics.

**Possible progression routes**

A-level mathematics is a good choice for students considering higher education in any science or Maths-based course, ranging from biochemical sciences, natural sciences, engineering, medical science and psychology to philosophy, economics, accountancy, management and actuarial science.

**Any other relevant information**

AS is decoupled from A-level, and all assessment will take place at the end of the course. Exam questions may draw on the content of the whole A-level.

**Equipment required**

You will be required to purchase a graphics calculator (£60- £80 estimate) and a course textbook costing about £20; a revision guide (£8 estimate) might support you further. These can be purchased through the school to keep costs down and you may be able to use a bursary.

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