

# Mathematics

$$\int_1^{\infty} \frac{\ln x}{x^2} dx = 1$$

**Exam Board**

OCR

**Qualification**

AS and A2-Level in Mathematics

**Entry Requirements**

GCSE Mathematics at grade A

**Content (Outline of Course)**

AS-Level Mathematics is studied in Year 12 and A2-Level is studied in Year 13. Both courses are made up of three equally weighted units: C1, C2 and S1 in Year 12 and C3, C4 and M1 in Year 13. C1, C2, C3 and C4 are the 'Core Mathematics' units, S1 is 'Statistics' and M1 is 'Mechanics'.

**Assessment**

Each unit is assessed via a 1½ hour examination – there is no coursework component.

**Careers Guidance**

Taking Mathematics will help you with other subjects; all of the sciences use mathematical techniques so doing Maths will give you a head start. A lot of other subjects use statistics so, again, doing Maths will give you an advantage. Even in essay-based subjects like History, maths can be useful. It teaches you to think in a logical way, something which is vital when putting across a coherent, logical argument.

Careers which lead on from Mathematics are often well-paid and they are also often very interesting. People who have studied Mathematics are in a fortunate position because they will have a good choice of career opportunities. Finance, computing, engineering, statistics, business and teaching are only a sample of possible careers. The main message is that you can do anything with Maths.