

# Core Mathematics - Mathematical Studies (Supplementary Course)

**1 year course**

**(Level 3 certificate – equal to AS level)**

**Exam board – AQA**

**QAN Code – 601/4945/0**

<b>Subject Recommendations:</b>
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GCSE Mathematics – Grade 4
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## **Course Content and Methods of Assessment:**

**AS Paper 1**      Analysis of data  
                         Maths for personal finance  
                         Estimation

Written exam – 50% - 60 marks

### **Paper 2**

**2 options studies; students decide which exam they sit.**

#### **Paper 2A – Statistical Techniques**

Critical analysis of given data and models  
The Normal distribution  
Probability and estimation  
Correlation and regression

Written exam – 50% - 60 marks

#### **Paper 2B – Critical Path and Risk Analysis**

Critical analysis of given data and models  
Critical path and risk analysis  
Expectation  
Cost benefit analysis

Written exam – 50% - 60 marks

Studying Core Maths helps students develop their quantitative and problem-solving skills. This gives them the confidence in understanding the mathematical content in other courses they are taking such as Geography, Biology, Economics, Psychology to name but a few. It helps them become better informed citizens, able to make sense of the information they will be presented with in employment, further study or later life.

### **Skills Developed on Course:**

Core Maths focuses on applying maths to real-life problems and has been developed with support from employers and higher education institutions. The course is designed to:

- . Consolidate and build mathematical understanding.
- . foster the ability to think mathematically and apply maths in unfamiliar situations.
- . support student's learning in other subjects requiring quantitative skills

- . prepare students for the real-life mathematical demands of further study and employment.

### **Who is Core Maths for?**

Core Maths is suitable for anyone with a grade 4 – 9 at GCSE Maths.

It is particularly valuable for any student who want to study A levels such as Biology, Geography, Psychology and Business studies that require a high level of mathematical competency.

Or:

It maybe that you really enjoy Maths but haven't got the required grade for A level or that A level Maths is just one A level too many but you would still like to study some Maths.

### **Higher Education**

Many universities including the University of Bath – make reduced offers for Core Maths students.