



Core Mathematics

WHY ?

This new and exciting course has been designed for students who are not studying Mathematics at A Level but would like to further develop their mathematical skills to support achievement in other subjects or success at University.

Our Core Mathematics course will include topics such as statistics, probability, advanced calculations and modelling. It will help you to develop your own mathematical thinking and problem-solving skills.

Most of the problems will be embedded in the context of other disciplines and real world problems. They have been chosen specifically to support you work in other subjects.

It may be particularly helpful if you are studying Physics, Chemistry, Biology, Geography, Business Studies, or Psychology.

Q&A

Who should study Core Maths?

Although eventually everyone will be encouraged to take Core Mathematics, it would be particularly helpful if you are studying any science, geography or business studies.

What qualifications do I need to study Core Mathematics?

You need to have gained at least a grade C at GCSE in Mathematics.

What will the course be like?

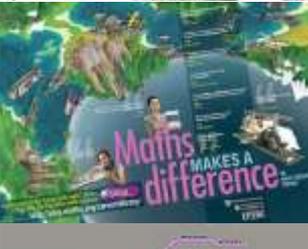
It won't be anything like GCSE linear mathematics as it will be based on activities that give you the chance to find new properties or create new ways of thinking to solve concrete problems. The course will expand on the understanding of the applications of mathematics in a project based way.

How long does it last?

It is a two year course based on 3 hours per week that can be taken in addition to or alongside your other A-level options.

How will it be assessed?

There will be a terminal exam there may also be a requirement to produce a portfolio of work.



We offer this course because:

- *It develops an understanding of the application of mathematics.*
- *It aims to develop problem solving in a real world context.*
- *It uses mathematics as an effective means of communication and analysis.*
- *It will support the development of skills desirable to Universities and Employers*
- *It develops an awareness of the relevance of mathematics to other fields of study, to the world of work and to society in general.*

Course requirements

In order for students to gain most fulfilment and reward from this course entry requirements are a Grade C or above in GCSE Mathematics (in both Methods of Mathematics and Application of Mathematics examinations where applicable). If you have completed a modular GCSE course you must have achieved a minimum of a grade C in your final unit examination.

Student progress is monitored by regular assessed homework and feedback on project work, which means that each pupil is always aware of exactly how well they are developing their mathematical skills in order to be successful.

If you have any additional queries do not hesitate to ask.

Mathematics Department

Professor Jeremy Hodgen of King's College London said:

"Mathematical problem-solving and modelling is becoming increasingly important in the workplace and in higher education. It is essential young people with GCSE study maths for longer to develop greater understanding. These proposals present an exciting opportunity for young people to develop this capacity to apply and use mathematics."

