

# AS/A2 Level Maths

Teachers: Ms H Rees

We offer a modular syllabus combining Core Mathematics, Statistics and Mechanics. Core Mathematics not only extends the pure techniques acquired at GCSE but also introduces new concepts and their applications. It is the launching pad of all mathematically based subjects including Physics.

Mechanics is the application of mathematical concepts and techniques in the physical world. Its applications range from calculating the energy produced walking up stairs to improving your snooker skills.

Statistics deals with the collection, processing and presentation of information. Statistics is used by people studying or working in many other areas ranging from Current Affairs to Medicine.

To achieve an AS Level grade, three modules are required where C1 and C2 are compulsory (Option A or B). For the A2 Level, the four core modules are compulsory. In addition, you will need two other Applied Modules. You will need M1 and M2 or S1 and S2 to complete the A2 Level Mathematics. The number at the end of each module represents the level. Hence, you cannot study M2 without the background of M1. The combination available in September 2012 will be subject to numbers.

## OPTION A Maths with Mechanics

AS	Year 12	Core Mathematics 1 (C1)	Core Mathematics 2 (C2)	Mechanics 1 (M1)
A2	Year 13	Core Mathematics 3 (C3)	Core Mathematics 4 (C4)	Mechanics 2 (M2)

## OPTION B Maths with Stats

AS	Year 12	Core Mathematics 1 (C1)	Core Mathematics 2 (C2)	Statistics 1 (S1)
A2	Year 13	Core Mathematics 3 (C3)	Core Mathematics 4 (C4)	Statistics 2 (S2)

Examination: C1 is a Non-Calculator Paper examined over 1 hr 30 minutes. All other modules including (Applied and Further Mathematics) are examined over 1 hr 30 minutes and are calculator papers. There is no coursework component.

Entry Requirements: In order to study Mathematics at AS or A2 Level, you will need at least a Grade B in your GCSE at GCSE HIGHER TIER. Any Examination Board is acceptable. To study Further Mathematics, you will need at least a Grade A in GCSE Mathematics. Please speak to a member of the Mathematics Department if you are interested in taking Further Mathematics. This is subject to numbers.

Finding out more: Advice is readily available. Talk to your Mathematics Teachers and ask their opinion. Contact with people who are currently studying AS/A2 level is important. Ask them what they enjoy about the course. The Careers Office is able to supply details of the A levels required to enter different university courses or professions.

#### Useful Resources:

- Core mathematics C1 (New Syllabus Text Book) by Heinemann
- Core mathematics C1 and C2 (New Syllabus Text Book) by Bostock and Chandler
- C1, M1 and S1 Pre-requisites (useful prior knowledge)
- [www.mathsnet.net](http://www.mathsnet.net)

#### Maths with Further Maths

AS/A2 Maths	YR1	C1	C2	C3	C4	M1	M2
AS/A2 Further Maths	YR2	FP1	FP2	FP3	S1	S2	M3