Eastbury mathematics department

Reformed qualification: GCSE Mathematics (9-1)

The aims the reforms to the mathematics curriculum are to
- Encourage fluency and understanding, not just memorised facts
- Have techniques to solve problems
- Enable pupils to reason Mathematically
- Enable pupils to understand Maths in a variety of forms and contexts of the mathematics department is to equip, develop and encourage students to excel in mathematics and achieve to their full potential in the new, more rigorous, gcse course.

For students to be;
- Problem solvers who are able to apply their combined mathematical and general knowledge
- Enjoy the challenges of mathematics and aspire to pursue mathematics beyond the gcse curriculum.

Our new GCSE qualification in Mathematics will require students to develop knowledge, skills and understanding of mathematical methods and concepts in all the key strands of Number, Algebra, Geometry and Statistics.

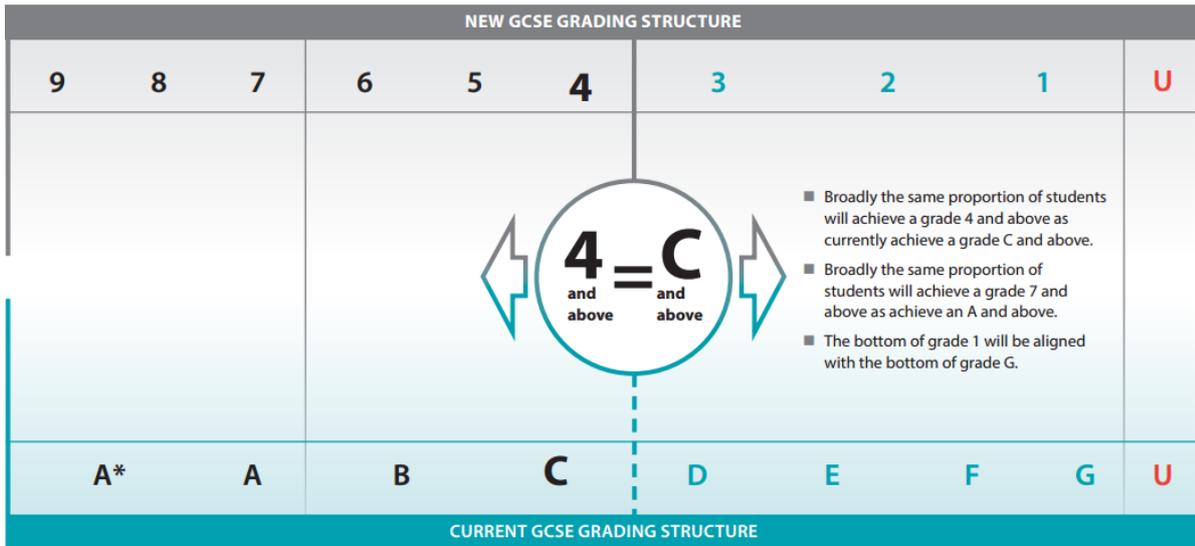They will be assessed on three main criteria:
- their ability to "Use and apply standard techniques" (AO1)
- how they "Reason, interpret and communicate mathematically" (AO2)
- their ability to "Solve problems within mathematics and in other contexts" (AO3)

In Year 11 students will sit either foundation or higher papers. Each tier will contain written papers, each contributing equally to the final grade. There is no coursework.

The course covers all aspects outlined in the National Curriculum and forms a solid base for studying the subject at a higher level. Mathematical understanding and reasoning also supports many of the other subjects offered at A level such as Physics, Economics, Geography and Psychology. A wide range of degree subject require A level Mathematics, for example Engineering, Finance, Economics, Actuarial Science, Physics and of course Mathematics. Well developed mathematical skills can also give you the ability to solve problems and work efficiently and are therefore highly valued in many varied professions.

A new grading system of grades 9 – 1, and U, has now been introduced.

It is intended that the standard required for the new grade 4 will be aligned to the current grade C, as can be seen in the diagram below.

NEW GCSE GRADING STRUCTURE										
9	8	7	6	5	**4**	3	2	1	U	

4 = C
and above = and above

- Broadly the same proportion of students will achieve a grade 4 and above as currently achieve a grade C and above.
- Broadly the same proportion of students will achieve a grade 7 and above as achieve an A and above.
- The bottom of grade 1 will be aligned with the bottom of grade G.

A*	A	B	**C**	D	E	F	G	U

CURRENT GCSE GRADING STRUCTURE

Pupils will study maths for 4 hours per week in both year 10 and 11.
The units to be studied, and the timescale, are included as separate attachments.

We are not currently committed to a particular exam board or text book but this page will be updated once those decisions are made.