Course Title	GCSE Mathematics (Exam board: AQA*) * this is subject to change depending on exam board changes to the style of exams
Course Description	Building on the Mathematics studied in KS3 the GCSE course is designed to designed to deepen students understanding of basic concepts, provide intellectual challenge with new topics, and provide an insight in to how mathematics is used in everyday life. A major focus on the new GCSE course is the ability to apply student's knowledge to unfamiliar problems that require multiple steps to achieve a solution. As such the course uses much of the knowledge learnt in years 7-10 but seeks to combine them in to a wider understanding of the relationship between different topics. This will be the final year of a 5-year program of study designed to allow students to achieve their full potential at GCSE
Course Content (Term 1,2,3 etc.)	See table on the next page.
Extra-Curricular Opportunities	Much of the Mathematics out of school support is provided by online activities, it is helpful for the students to have access to a computer for use out of lessons
Useful Websites	www.Mathswatch.vle.com www.mymaths.co.uk https://cloud.guilsborough.northants.sch.uk
Important Information	Students in Mathematics will be set based on their ability, this is initially based on information from the primary school, and then though our own regular testing. Students identified as needing additional help in Mathematics, will be supported though a basic skills numeracy program. All students are expected to have their own scientific calculator; these can be brought from the Mathematics Department. Students are also expected to have basic geometry set available for every lesson. We provide this equipment and a tablet in Year 7 for any student receiving the PP fund.
Provision For Most Able	As all students in Mathematics are set, the more able students, will follow an accelerated program of study, that enable them to explore new topics earlier, and challenges them to think about their current knowledge in new and unfamiliar ways. This course has been designed to incorporate elements of A Level Mathematics as preparation for their next stage of study
Assessment	Students in Mathematics are continually assessed in lessons, in addition to this every couple of week students will complete an assessed homework, once marked by teacher, students will receive targets for improvement. In addition to this students will sit setting and assessment tests in Terms 2 and 4.

This is based on the 3 year GCSE course

	Excelling Mathematicians Higher + (Set 1)	Mastering Mathematicians Higher (Set 2-5)	Developing Mathematicians Higher with Stats (Set 6-7)	Emerging Mathematicians Foundation (Set 8-10)
Term 1	Properties of Circles

Variation | Properties of Circles

Variation

Triangles | Properties of Circles

Variation

Quadratic Equations | Percentages and Variation

Curved Shapes and Pyramids |
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| Term 2 | Differentiation

Graphs

Co-ordinate geometry | Triangles

Graphs

Number Recap | Triangles

Graphs

Number Recap

Surds | Number and Sequences

Algebra Recap

Right angles Triangles

Number Recap |
| | | | | |
| Term 3 & Term 4 | Algebraic fractions and functions

Algebra 2-techniques

Vectors

Integration | Algebraic fractions and Functions

Stats Recap

Vectors | Algebraic fractions and Functions

Stats Recap

Vectors | Congruency and Similarity

Probability

Powers and standard form |
| | | | | |
| Term 5 | Revision | Revision | Revision | Non Linear Graphs

Simultaneous equations and linear inequalities |
| | | | | |
| Term 6 | Revision | Revision | Revision | Revision |