

## 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 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 students' knowledge to unfamiliar problems that require multiple steps to achieve a solution. As such, the course uses much of the knowledge learnt in Year 7/8 but seeks to combine them into a wider understanding of the relationship between different topics.

### Course Content:

Pupils in Year 9 continue to study topics that build on their prior knowledge from Years 7 and 8, as well as introducing new topics, and exploring new ways of applying current knowledge. All topics are taken from the GCSE assessment objectives and cover topics from Number, Algebra, Geometry, Statistics, Measure, Ratio and Proportion.

### Extra-Curricular opportunities and useful websites:

Please see websites (below) in addition support outside of lessons, as needed for the individual student.

[www.Mathswatch.vle.com](http://www.Mathswatch.vle.com)

[www.mymaths.co.uk](http://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 through our own regular testing.

Students identified as needing additional help in Mathematics, will be supported through a basic skills numeracy program.

All students benefit from having their own scientific calculator; these can be brought from the Mathematics Department. Students would also benefit from having had basic geometry set available for every lesson.

Much of the Mathematics out of school support is provided by online activities, it is helpful for students to have access to a computer for use out of lessons. (This can be through the LRC at school)

### Provision for Most Able:

As all students in Mathematics are set, the More Able students, (who will be in set 1 in Year 9) will follow an accelerated program of study. This enables 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 weeks students will complete an assessed homework. Once marked by their class teacher, students will receive targets for improvement.

In addition to this students will sit assessment tests in Terms 2 and 6.

