



## Mathematics

KS4

### Why should I study this course?

Mathematics is a compulsory subject for all students. It is essential to develop a range of numerical skills that will help you cope in the modern world as well as develop the ability to think logically and solve problems. Mathematics is a pre-requisite for many careers and post-GCSE courses.

You will be encouraged to learn, discover and develop your mathematical skills in a variety of contexts. Problem solving, investigative and practical work will all be experienced, as well as more traditional learning approaches. The new GCSE specification for mathematics seeks to develop students' ability to use and apply their mathematical skills in real life contexts.

### What knowledge and/or skills will I need?

Mathematics equips students with a uniquely powerful set of tools to understand and change the world. These tools include logical reasoning, problem-solving skills and the ability to think in abstract ways.

You will develop the skills and knowledge you will need to tackle unfamiliar problems. You will become more aware of the connections between different areas of mathematics and its applications in the world around you. You will become increasingly capable of calculating fractions, decimals and percentages and using proportional reasoning. You will build on your understanding of number and make generalisations using letters by manipulating expressions and equations. You will extend your mathematical vocabulary to talk about numbers and geometrical objects. You will also use geometrical properties to find missing angles and lengths, explaining your reasoning. You will collect data, learn statistical techniques to analyse this data and display and interpret the results. The majority of mathematics learning will take place in classrooms, with an emphasis on independent study to enhance your learning experience.

### How will I be assessed?

The Mathematics GCSE course is offered by the Edexcel Examination Board and is assessed on the following basis:

- there are 2 tiers of entry: Foundation (grades 1 – 5) and Higher (grades 4 - 9);
- the course covers five areas: Number, Algebra, Ratio, Proportion and rates of change, Geometry and measures, and Statistics and probability;
- the GCSE course builds on your learning from Year 9;
- the new GCSE course you are following is designed to encourage students to apply their mathematics skills in real-life, practical situations;
- the course will be assessed by three examinations (1 hour 30 minutes each) at the end of Year 11 and there is no coursework;
- there will be one non-calculator paper and two calculator papers. Each paper has an equal weighting (33.3%);
- throughout the course, there will be regular assessments to help you understand the standard required and to give you practice sitting exam-style assessments.

### Want more information?

Email Miss Pollett [jpollett@corfehills.net](mailto:jpollett@corfehills.net)

Visit the [Edexcel Website](#)