# Pearson Edexcel GCSE (9-1)
# Mathematics

## What can I gain from this qualification?

Studying GCSE Mathematics will ensure that you are developing an understanding of the mathematics that surrounds us every day. Throughout this qualification, you will master skills in:

- Data handling
- Statistical reasoning
- Numerical fluency
- Algebraic manipulation

## Future careers

### Where can studying mathematics or having a love of numbers take you?

In today's fast-paced world, mathematics is for everyone, and everyone can benefit from studying this subject. From weather forecaster to nutritionist, there are endless career opportunities that can be made possible through studying mathematics.

**Here are the core topics of GCSE Mathematics and how they can be useful in future careers.**

### Probability

A strong understanding of probability is beneficial for analysing risk and making informed decisions. This will complement data science, computer engineering and actuarial careers.

### Ratio

Measuring and comparing quantities is a useful skill in various career paths, such as finance for measuring returns with investments and marketing for calculating the effectiveness of a campaign.

### Geometry

Working out the circumference of shapes and trigonometry are some of the geometry skills used by architects, engineers and product designers. Geometry also covers concepts like measuring distances, calculating angles and measuring volumes, which are useful skills for jobs like a builder or carpenter.

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# Where will this course take me?

GCSE Mathematics will offer you lots of transferable skills which are known to be vital in further education and the world of work, such as:

- Critical thinking
- Problem solving
- Analysing data
- Attention to detail

You will find that these skills are required in a vast array of further education courses like:

- Economics
- Psychology
- Sports Science
- Geography

| GCSE Mathematics | |
|---|---|
| **Paper 1 (non-calculator), Paper 2 (calculator) and Paper 3 (calculator)** | |
| • Externally assessed<br>• Availability: May/June and November (post-16 only) | Each 33.33% of the total GCSE |
| **Overview of content** | |
| 1. Number<br>2. Algebra<br>3. Ratio, proportion and rates of change | 4. Geometry and measures<br>5. Probability<br>6. Statistics |
| **Overview of assessment** | |
| • Written examination papers with a range of question types<br>• 1 hour and 30 minutes (both Foundation and Higher tier papers)<br>• 80 marks available | |

*Scan the QR code to discover more future careers and opportunities you can gain through studying mathematics!*