

## What are the aims of this course?

The aims and objectives of the Pearson Edexcel Level 1/Level 2 GCSE (9–1) in Mathematics are to enable students to:

- Develop fluent knowledge, skills and understanding of mathematical method and concepts.
- Acquire, select and apply mathematical techniques to solve problems.
- Reason mathematically, make deductions and inferences, and draw conclusions.
- Comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.

## What will I learn?

Through the Mathematics content students should be taught to:

- Consolidate their numerical and mathematical capability from key stage 3 and extend their understanding of the number system to include powers, roots {and fractional indices}.
- Select and use appropriate calculation strategies to solve increasingly complex problems, including exact calculations involving multiples of  $\pi$  {and surds}, use of standard form and application and interpretation of limits of accuracy.
- Select appropriate concepts, methods and techniques to apply to unfamiliar and non-routine problems; interpret their solution in the context of the given problem.

## Progression and Career Opportunities

What can I do at college if I achieve a GCSE in this subject:

A-Level Mathematics, Statistics, Economics, Business Studies, Physics and many more.

MOST COURSES REQUIRE A MINIMUM OF A GRADE 5 IN

## Course Outline

Unit Titles	Content	% Unit is Worth
Paper 1, 2 & 3(F)	Geometry & Measures (15%), Number (25%), Ratio, proportion and rates of change (25%), Algebra (20%), Statistics & Probability (15%)	33.3% each paper
Paper 1, 2 & 3(H)	Geometry & Measures (20%), Number (15%), Ratio, proportion and rates of change (20%), Algebra (30%), Statistics & Probability (15%)	33.3% each paper

MATHEMATICS.

**What jobs can I do if I achieve a GCSE in this subject:**

Accountancy | Aerospace & Defence | Automotive | Biosciences | Business Support Services | Chemicals | Construction | Consultancies | Education | Engineering | Environment | Exploration Geophysics | Financial Services | Food & Drink | Government | Healthcare | Insurance | IT & Computing | Manufacturing | Media | Metals & Minerals | Operational Research | Pharmaceuticals | Recruitment | Academic Research | Science | Telecoms | Transport/Travel | Utilities and many more.

## Further Information

GCSE Maths has changed, students will now be awarded a Grade 1 – 9 instead of Grade A\*– G. There is an increase in content with a big focus on problem solving. This means it will take 3 years to cover the content instead of 2. Some of the 'Higher' content is now on the 'Foundation' paper.

**Exams:** Three examinations in the summer of Year 11. Two calculator, one non-calculator. **Coursework/Controlled Assessment:** None

**Frequently asked questions:**

**Q: When do we start our GCSEs?**

A: At the start of Year 9.

**Q: Which exam board do we use?**

A : Edexcel.

**Q: How much homework will I be given?**

A: One piece each week.

**For more information contact:**

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