

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 π {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 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 Ser-

Course Outline

vices | 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

The Mathematics department also offer two additional qualifications: **The Entry Level Certificate** - aims to provide every student with the opportunity to achieve a qualification. It has been designed to complement the GCSE (9-1) Mathematics specification, enabling lower attainers to develop the underpinning mathematical skills and understanding to provide a progression route to GCSE Mathematics. **Further Mathematics** - is offered to our high achieving students as an introduction to AS topics, stretching and challenging those mathematicians who are expected to achieve the top grades in GCSE Mathematics

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.

Specification link:

<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html>

For more information contact:

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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