



Pearson
Edexcel

Level 2
Extended
Mathematics
Certificate
Course Guide



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Why choose the Pearson Edexcel Level 2 Extended Maths Certificate?



We want to make sure that every learner has a chance to achieve their full potential at secondary school. Our Level 2 Extended Maths Certificate provides stretch and challenge that allows learners to dive deeper into maths.

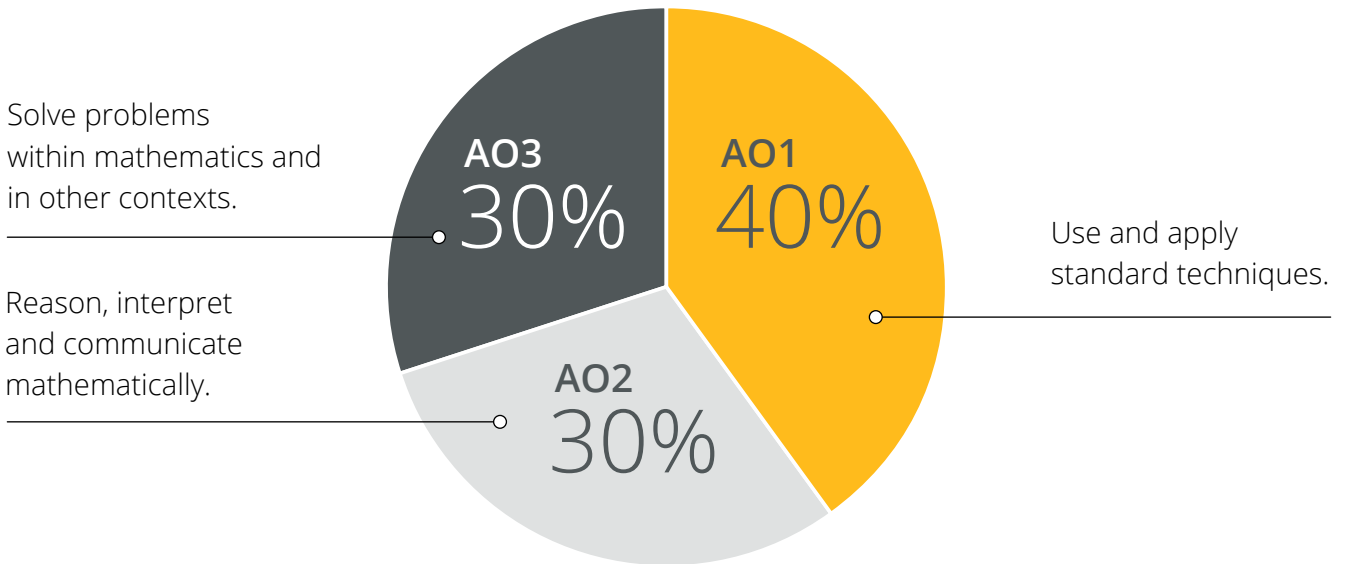
Expand on student's mathematical knowledge to help them achieve their potential at KS4 and prepare for further study in many subjects.

Based on teacher feedback, containing key concepts and topics that make sense for your students at this stage of their learning journey.

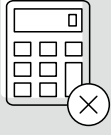

A natural extension of the GCSE course, with small amounts of A Level content embedded, rather than units that focus completely on A Level content.

A huge amount of free resources available throughout the year on our Qualifications website, the Maths Emporium and our PD Academy as well as paid-for textbook and digital support.

Qualification at a glance



Our Level 2 Extended Maths Certificate consists of two externally examined papers. Students must complete both assessments in the summer series of any single year.

Assessment Structure		Range of Content	
<p>Paper 1</p> <p>Non-Calculator</p> 	<p>Each assessment is:</p> <p>75 mins</p> <p>(60 marks)</p>	<p>Both papers focus on the same content and Assessment Objectives</p> <p>The majority of the content is focussed on algebra, but with opportunities to also demonstrate skills in geometry, probability, number and ratio.</p>	
<p>Paper 2</p> <p>Calculator</p> 			

Who can study the Extended Maths Certificate and what content is covered?



The Extended Maths Certificate is aimed at students targeted to achieve a grade 7 or above in GCSE Mathematics.

The content provides students the opportunity to challenge themselves at Key Stage 4 and builds the perfect foundation for further study, easing the transition to many KS5 qualifications.

The content will be an extension of the GCSE Mathematics content. Over 50% of the specification will be algebra content, with the remaining content being a mixture of Number, Geometry, Probability and Ratio.

	Content	
Number	1. Calculate with integer, negative and fractional indices	2. Surds
Algebra	1. Simplify and manipulate algebraic expressions 2. Use algebra to support and construct proofs 3. Inverse functions 4. Intercepts and quadratic functions 5. Interpret graphs of linear and quadratic functions	6. Transformations 7. Gradient of graphs including quadratic and other nonlinear graphs 8. Equation of a circle 9. Solve linear and quadratic equations 10. Solve simultaneous equations 11. Solve linear inequalities
Ratio, proportion and rates of change	1. Interpret gradient and rates of change	
Geometry and measure	1. Apply and prove standard circle 2. Pythagoras' theorem	3. Proof of formula 4. Vectors
Probability	1. Enumerate sets and combinations of sets systematically, using tables, grids, Venn and tree diagrams	2. Probability of independent and dependent events 3. Conditional probabilities



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How can the Extended Maths Certificate be delivered?

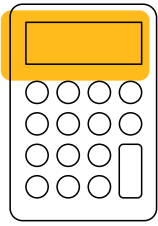
We know that the delivery of the Extended Maths Certificate will be varied. Some centres will teach it alongside Maths GCSE, others will teach it after school and at lunchtime and many students will use this qualification to develop their independent learning skills.

Whichever route is taken the learning time needed will be 121 hours which is in line with all other qualifications of this type. In our Specification we've included Guided Learning Hours of 60.

How will it be assessed?

There will be 2 papers each of length 75 minutes. Both assessments are worth 60 marks, with one calculator and one non-calculator paper. The qualification can only be sat during the summer series.

Grading will be Pass (aligned approximately to a grade 7) Merit (grade 8) Distinction (grade 9) Distinction* (above the grade 9). Our grading scale makes it easier to explain the difference between GCSE Maths and Level 2 Certificate achievement.



Example questions

- 3 Triangles ABC and PQR are similar.

Triangle ABC is an isosceles triangle where

- one of the angles is 40°
- one of the angles is obtuse
- two of the sides are each 10 cm.

Length $PQ = 1.5 \times$ length AB

Work out the area of triangle PQR .

Give your answer correct to 3 significant figures.

Total for Question 3 is 4 marks

- 9 $\vec{OA} = 2\mathbf{a}$ $\vec{OB} = 3\mathbf{b}$

C is a point such that $\vec{AC} = \frac{5}{3}\vec{AB}$

D is a point such that $\vec{AD} = x\mathbf{a} + y\mathbf{b}$ and $\vec{CD} = \frac{-2}{3}x\mathbf{a} + \frac{13}{33}y\mathbf{b}$

Find the ratio $OB : BD$

Give your ratio in its simplest form.

Total for Question 9 is 8 marks

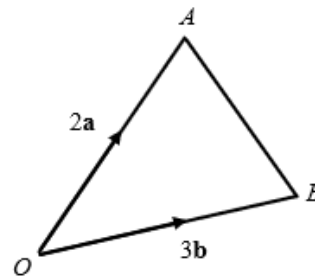




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Resources to motivate your higher attainers to achieve their potential

Our student book and digital resources for Pearson Edexcel Extended Maths Certificate have been designed to support students to dive deeper into maths and work more independently to boost their mathematical confidence at Level 2.

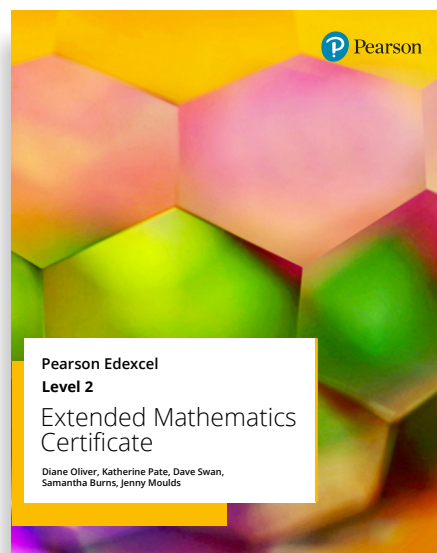
Everything you need to teach Extended Maths confidently, with resources that are fully aligned to the specification.

Support for teaching the qualification alongside your current KS4 offer, with mapping documents available for Pearson Edexcel GCSE and International GCSE maths specifications and schemes of work.

Designed by a team of experts for students to use independently, any time, anywhere.

The student book encourages your students to understand and apply extended maths concepts, with plenty of practice opportunities and exam-style questions to help them understand the exam requirements and give them the confidence to succeed.

ActiveHub digital resources include more support for independent learning with video walkthroughs to guide students through example questions. There are also fully worked solutions and worksheets with additional practice and purposeful practice for each lesson.



Find out more:
[pearsonschools.co.uk/
extendedmaths](https://pearsonschools.co.uk/extendedmaths)

It is not a requirement to purchase these resources in order to deliver this specification, and resources from other publishers will be available.



Find out more and register your interest:

quals.pearson.com/extendedmaths

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