



Y11 Learning Journey. Subject: Maths

Exam Requirements: Your GCSE in Maths is structured, and examined, in the following way:

Paper One:	Paper Two:	Paper Three:
Non-Calculator, 1.5 hours. Some topics are more likely to come up on non-calculator, but there is not list of topics specific to this paper.	Calculator, 1.5 hours. This is no specific list of topics for this paper; it could be anything that was not on paper 1	Calculator, 1.5 hours. This is no specific list of topics for this paper; it could be anything that was not on paper 1 or paper 2. After paper 2, we will make a list of likely topics for paper 3.

Overview of the Year:

Week Beginning	The focus of your learning or revision this week: (the number in brackets is the grade level of the topic and helps you find it on Maths Genie • Learn GCSE Maths for Free)	Key assessment pieces or specific homework tasks (including deadlines of any coursework/NEAs)
1	Straight line graphs $y = mx + c$: gradient of a line & equation of a line (5), parallel and perpendicular lines (6)	In your 4 th hour maths lesson (the one with a different teacher), you will be working on indices (4)
2	Advanced trig: The sine rule & the cosine rule (7), Finding the area of any triangles (7)	4 th hour: Indices (4)
3	Inequalities: Inequalities (4), Inequalities on graphs, Quadratic inequalities (8/9)	4 th hour: Expand triple brackets (6)
4	Area and volume: Spheres and cones (5), Similar shapes (6)	4 th hour: Sequences (nth term) (4)
5	Capture recapture (6), Direct and inverse proportion (7)	4 th hour: The nth term of a quadratic sequence (8/9)
6	The product rule for counting (6), Probability equation questions (8/9)	4 th hour: Iteration (7)
7	Vectors (5), Vectors proof questions (8/9)	Assessment: In class tests on the topics covered so far in year 11.
Half term		
1	Proof & Proof of the circle theorems (8/9)	4 th hour: <u>Inverse and composite functions (7)</u>
2	Surds (7), Completing the square (8/9)	4 th hour: <u>Inverse and composite functions (7)</u>
3	Simultaneous equations & Solving graphically (5), Quadratic simultaneous equations (8/9)	4 th hour: <u>Plans and elevations (4)</u>
4	Assessment Week One	4 th hour: <u>Prime factors, HCF and LCM (4)</u>
5	Exam feedback	4 th hour: <u>Negative and fractional indices (6)</u>
6	Exam feedback	4 th hour: <u>Recurring decimals to fractions (6)</u>
7	Velocity time graphs (8/9)	
	Histograms (7)	
Christmas Break		
1	Trigonometric and exponential graphs (7), Exact trig values (5)	4 th hour: Histograms (7)
2	Transforming graphs $y = f(x)$ (8/9)	4 th hour: Exam paper practice
3	Congruent triangles (7)	4 th hour: Exam paper practice
4	Loci and construction (4)	4 th hour: Exam paper practice

5	3D Pythagoras and trigonometry	4 th hour: Exam paper practice
Half Term		
1	Assessment week 2	4 th hour: Exam paper practice
2	Rearranging harder formulae (7), Algebraic fractions (7)	4 th hour: Exam paper practice
3	Perpendicular lines and the equation of a tangent (8/9)	
4	Cumulative frequency & box plots (6)	4 th hour: Exam paper practice
5	Drawing quadratic graphs & Drawing other graphs: cubic / reciprocal (5)	4 th hour: Exam paper practice
6	Revision	4 th hour: Exam paper practice
7	Revision	4 th hour: Exam paper practice
Easter Break		
	Revision	4 th hour: Exam paper practice
	Revision	4 th hour: Exam paper practice
	Revision	4 th hour: Exam paper practice
Provisional start to the GCSE Exams		

Exam Practice:

You can find past papers to help support your revision and develop your exam technique here:

[Maths Genie • Edexcel GCSE Maths Past Papers, Mark Schemes, Model Answers and Video Solutions](#)

Revision Materials:

We advise that you use the following revision materials:

Revision guides [GCSE Maths | CGP Books](#)

Mainly, revise topics using [Maths Genie • Learn GCSE Maths for Free](#) and exam papers using [Maths Genie • Edexcel GCSE Maths Past Papers, Mark Schemes, Model Answers and Video Solutions](#)

Glossaries:

Vocabulary lists to support your revision can be found here:

[Maths Glossary \(studymaths.co.uk\)](#)

Advice and Guidance for Revision

In maths, you must do questions. And the best questions are found in past papers. Don't do too much note taking or highlighting; this gives you a feeling of understanding but you might struggle to do the questions on your own.

