Mathematics GCSE – what it entails

- Pearson Edexcel: 3 papers, each 90 minutes long
- 1 non-calculator paper; 2 calculator papers
- Questions are 1 7 marks; emphasis on workings
- Foundation Grade 1 5
- Higher Grade 3 9
- GCSE is given for 'mathematics' and does not reference the tier
- Decision on tier of entry is finalized in February of Year 11; but students need to know where they are at before then!

Foundation	Grade	Higher
	9	
	8	
	7	
	6	
	5	
Pass	4	Pass
	3	
	2	
	1	
	U	

Mathematics GCSE – what colleges and employers are looking for



Being prepared for maths



- Students are encouraged to look after their own books
- Students need a MODERN scientific calculator
- Students who have and use their own calculator do better in exams

What does it mean to do maths?



Department for Education Ensure that all pupils ...

Become fluent in the fundamentals of mathematics Reason mathematically by following a line of inquiry Can solve problems ... persevering in seeking solutions

Typical 4-mark crossover question

ABCD is a quadrilateral.



All angles are measured in degrees.

Show that *ABCD* is a trapezium.

What does acceptable work look like?

- Clearly laid out method
- Steps can be followed by the examiner & conclusion is clear
- Maths teachers model methods in class
- Students need to practice their working (before they get into the exam!)



What does unacceptable work look like?

[2 marks]

[2 marks]

- These have been provided by the Exam board as examples of '0' scores
- Workings need to be laid out clearly
- Questions need to be answered fully
- Students MUST use a pencil for diagrams



How to revise maths?

Skills practice

Sparx
Sparx
Homework
Independent learning
Sparx Maths

 Corbettmaths How to videos
Practice questions/ans
Videos and Worksheets – Corbettmaths

• MathsMadeEasy MME. Revision by topic/grade Sample questions Edexcel GCSE Maths Revision | Past Papers |

Tests | Worksheets (mmerevise.co.uk)

Past paper questions

 Provided by school Materials on Sharepoint / Edulink Maths - Home (sharepoint.com)

• Maths genie Maths Genie Has past papers with sample answers written in a student friendly way https://www.mathsgenie.co.uk/papers.php

How can you help at home?

- Look through your childs' exercise books with them
- ✓ What have they been studying?
- ✓ Are they correcting their own work & modelling answers?
- ✓ Are loose sheets stuck in? (some students struggle to complete this in class where teaching time is a premium)
- If possible, provide a quiet space for revision
- ✓ GCSE maths is based on an ability to independently solve problems
- If possible, print out revision lists and past papers
- ✓ It's helpful to practice writing answers (most students who use a laptop for other subjects will still do their GCSE maths on paper)
- Make sure they come to school with the right equipment
- Students who have and practice using their own equipment will do better in their exams

How does the school help?

- Year 10 mocks are an early chance to practice in exam conditions •
- The school will provide a revision list and sample papers •
- Students take their completed papers home & get a current 'grade' •
- With a detailed breakdown of where they are gaining / losing marks
- Which provides for a focussed discussion at parents evening

GCSEs start in just over 15 months

In year 11:

- After school revision sessions are held every week
- Students are encouraged to purchase revision guides
- Lesson time is given ۲ over to revision and exam practice when the curriculum is complete

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		Marks	<u>Marks</u>	<u>Marks</u>
	Description	Achieved	Available	LOST
Q1	Arithmetic Sequences	2	2	0
Q2	Fractions Sums	3	3	0
Q3	Area Problems	5	5	0
Q4	Venn Diagrams	2	3	1
Q5	Estimation	2	4	2
Q6	Straight Line Graphs	4	4	0
Q7	Ratio Problem Solving	3	5	2
Q8	Averages	0	3	3
Q9	Percentage Change	0	1	1
Q10	Simultaneous Equations	4	4	0
Q11	Transformations	2	3	1
Q12	Types of Graph	0	3	3
Q13	Histograms	1	5	4
Q14	Triple Brackets	2	3	1
Q15	Sectors	0	4	4
Q16	Algebraic Probability	1	2	1
Q17	Surds	1	3	2
Q18	Recurring Decimals to Fractions	1	3	2
Q19	Similar Triangles	0	3	3
Q20	Powers and Roots	0	3	3
Q21	Vol and Surface Area	0	5	5
Q22	Trigonometric Graphs	0	4	4
Q23	Circles	0	5	5
Total		33	80	47

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🗆 Mar	ks Achieved		eflec+i	on		
🗖 Mar	•ks Lost	h 「	enecti	un		
0% 50%100%		- % Silly Mistake	Need to Practise	Topic for HW	Practice	
Q1					11498	
Q2					U793	U224
Q3					U226	U970
Q4					U476	U748
Q5					U225	
Q6					U315	
Q7					U577	U595
Q8					U291	
Q9					U671	U278
Q10					U760	
Q11					U766	
Q12					U980	U593
Q13					U814	
Q14					U606	
Q15					U373	
Q16	-				U806	
Q17	-				U338	U707
Q18	-				U689	
Q19	-				U578	
Q20	-				U772	
Q21					<u>U929</u>	<u>U142</u>
Q22					<u>U540</u>	<u>U627</u>
Q23	-				<u>U567</u>	
Total						
		Answe	ne.	https://w		rymati

Thank you.. Please ask questions!

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