

BROOKFIELD COMMUNITY SCHOOL

COMMITTED TO EXCELLENCE

Route to Exams Maths



Mathematics – Route to Exams 2025

Statisticians and economists at the DfE established a link between GCSE attainment and an increase in lifetime earnings after tracking the earnings of more than two million people in England over 12 years.

One-grade improvement in maths is estimated to be linked with an increase of £14,579 in present value of lifetime earnings







- Every year, 10% of students miss out on a Higher grade by 3 marks or less.
- The 2024 boundary for a 4 on Foundation was 23 marks higher than 2023!





- Using books/topic tests/mocks/past papers.
- Using Sparx.
- Free from distractions and bad advice!







- Treat every practise paper like it is your real exam.
 - Black pen (either ink or ball-point no erasable pens as they can fade with heat!)
 - Clear pencil case
 - Clear water bottle with no labels
 - Pencils (and an eraser and sharpener!)
 - Scientific calculator (make sure to remove the lid if you have one)
 - · A ruler, pair of compasses, and protractor (or any mathematical instrument set)





• Treat every practise paper like it is your real exam.



Equipment needed for GCSE maths exams

includes: C> Think Student +1

- Black pen (ink or ball-point)
- Clear pencil case
- Clear water bottle
- Pencils (with eraser and sharpener)
- Scientific calculator
- Ruler, pair of compasses, and protractor





- Use your books and topic tests to support you.
- Every topic test is written from past paper questions, broken down by skill and scored as a percentage to help you compare and prioritise.





TOPIC	TEST:	Year	7	Higher 2.	Number Skills
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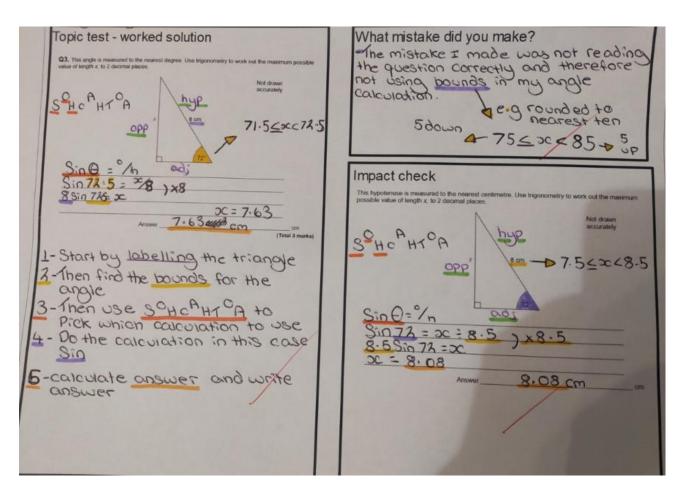
Calculators allowed on Q8 & 9 only

Score 18/24 75%

Question	Skill	My Score / Out Of		
Q1 – Q2	Understand factors, multiples, HCF and LCM	6	/6	
Q3	Calculate with negative numbers	4	/4	
Q4	Use mental and written strategies for multiplication	4	14	
Q5	Use mental and written strategies for division	1	1:	
Q6	Carry out calculations involving squares, cubes, square roots and cube roots.	0	/	
Q7	Estimate a calculation by rounding	0	1	
Q8 – Q9	Use a scientific calculator accurately	3	/	
Carl Torres	Total	18	12	











- All AQA papers available online, walkthroughs on youtube.
- AQA | Find past papers and mark schemes
- We have used the papers from 2021 onwards all the papers 17-20 are available for practise.

Subject	
Mathematics	×
Qualification	
GCSE	~
Specification	
Mathematics (8300)	~
Series	
All available series	~





- You can access grade boundaries from when these were live papers, but use with caution.
- We don't know where the boundaries will land this summer we do know that more marks will equal a better grade.
- We know that there are a certain number of grades at each level available.
- Control the controllable!





Paper	November 2019 P	Paper 1F				cnary	T
Name	Joe Bloggs					sparx	Ť.
Teacher	Mr Stewart						1
	Questions	Торіс	S	co	re	Sparx Code	+
	1	Understanding and ordering decimals	1	Ī	1	U435	+
	2	Solving equations with one step	1	Ì	1	U755	+
	3	Fractions, decimals and percentages	0	Ì	1	U594,U888	1
	4	Calculating with roots and powers	1	1	1	U851	1
	5	Using a written method to multiply integers	1	1	3	U127	t
	6a	Interpreting bar charts	0	1	1	U557	1
	6Ь	Interpreting bar charts	1	1	1	U557	1
	6c	Interpreting bar charts	1	1	1	U557	1
	6d	Drawing bar charts	2	1	2	U363	1
	7a	Using a written method to divide with decimals	1	1	1	U868	1
	7Ь	ultiplying and dividing with place value, Using a written method to multiply decima	1	Ì	1	U735,U293	\uparrow
	8a	Adding and subtracting decimals	2	Ì	2	U478	1
	86	Adding and subtracting decimals	2	Ì	2	U478	\uparrow
	9	Using a written method to multiply decimals	2	Ì	2	U293	1
	10	Multiplying and dividing with place value, Understanding and ordering integers	0	Ì	3	U735,U600	1
	11a	Writing probabilities as fractions	1	Ì	1	U408	1
	11b	Writing probabilities as fractions	0	Ì	2	U408	1
	12	Constructing fractions, Constructing and solving equations	2	Ì	3	U163,U599	1
	13	Rounding integers, Rounding decimals, Estimating calculations	2	Ì	2	U480,U298,U225	1
	14	Area and perimeter, Writing and simplifying ratios	3	Ì	3	U993,U687	1
	15	Angles on a line and about a point	3	1	3	U390	1
	16	Calculating with roots and powers	0	1	1	U851	1
	17	Plotting straight line graphs	2	1	3	U741	1
	18a	Constructing fractions	2	1	2	U163	1
	18Ь	Finding percentages of amounts without a calculator	3	Ì	3	U554	1
	19a	Writing and simplifying ratios	1	Ì	1	U687	1
	19Ь	Writing and simplifying ratios	1	1	1	U687	1
	20	Writing probabilities as fractions, Probabilities of mutually exclusive events	1	1	1	U408,U683	1
	21	Solving equations with the variable on both sides	2	1	3	U870	1
	22	Sharing amounts in a given ratio, Angles in triangles	2	1	4	U577,U628	1
	23	Types of data	1	1	1	U322	1
	24a	Reflection	1	1	1	U799	1
	24Ь	Rotation	1	1	1	U696	1
	25a	Position-to-term rules for geometric sequences	0	1	1	U958	1
	25Ь	Special sequences	0	1	2	U680	1
	26	Simplifying algebraic fractions by cancelling, Substitution into formulae	2	1	2	U103,U585	1
	27	Index rules with positive indices	3	Ì	3	U235	1
	28	Finding the volume of cylinders, Finding the volume of spheres	Ō			U915,U617	+
	29	Sharing amounts in a given ratio	4	i	4	U577	+
	30a	Multiplying and dividing numbers in standard form	2	Ż	2	U264	1
	30b	Adding and subtracting numbers in standard form	0	i	2	U290	+
	31	Interpreting inverse proportion equations	1	Ż	1	U364	+
		Total		÷.			+





- Getting the most from Sparx use your q by qs to target skills you need to improve upon.
- Sparx can produce unlimited extra, personalised practise for you to help revise and prepare for exams.





- Work with the Maths department.
- Tuesdays after school.
- Easter School.
- Boosters and pre exam breakfasts.





- The Maths department believe in you, and we will do everything we can to support you.
- You have already improved by more than half a grade per student, from your mocks in December to this point in March.
- You have an incredible opportunity to do brilliantly this summer, as individuals and as a year group. Make sure you grab it with both hands!



