



# Year 11 Higher Maths GCSE Revision

Su	bject	Papers	Duration		
Mathematics		3 papers	1hr 30 mins each		
		Paper 1 – Non-Calculator			
		Paper 2/3 – Calculator			
Ca	lculator – Make sure you have a workir	ng Casio scientific calculator.			
	We sell the Casio calculators	on parentpay.			
We	ebsites to use	What is on there			
1	https://www.sparxmaths.uk/	Use the independent learning sec	tion to work on the		
		areas you struggled with on your	mock. Ask you		
		teacher for specific areas			
2	https://corbettmaths.com/2023/02/15/	Checklists, videos on specific topi	cs, practice exam		
	gcse-maths-summer-2023/	style questions on all topics and p	ractice GCSE papers.		
		practice papers			
		There will also be predicted papers after Paper 1 so			
		check back then too.	•		
3	https://www.onmaths.com/	Unlimited predicted papers. Make sure you select the			
	right tier (higher/ foundation) and AQA and then wor				
		through the questions. Have a pen and paper to hand			
		for working out too.			
4	https://www.mathsgenie.co.uk/AQApap	All the past papers are here with	mark schemes. When		
	ers.ntml	Completing past papers:	20 mins to complete		
		it	so mins to complete		
		2. Anything you don't comp	lete in that time do		
		in a different colour			
		3. Mark your answers, make	e a list of any topics		
		you struggled with			
		4. Plan to do focused revisio	on on these topics		
		Aim to do at least one past paper	a week		
4	Past papers – Set every fortnight in	When completing your past pape	<u>r:</u>		
	lessons	1. Give yourself 1 hour and	30 mins to complete		
		it.			
		2. Anything you don't comp	lete in that time do		
		in a different colour			
		3. After marking your answe	ers, put your scores		
		into pinpoint to get your	5 key topics to work		
		on.			
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# Grade 4/5

### Number

Topic	Topic code	R	Δ	G
10010	10010 0000	••		•
Fractions	U224, U538, U793			
Factors, multiples and primes	U739, U250			
Percentage change	U671, U332 <i>,</i> U988			
Standard form	U330, U534, U264, U290			
Error intervals	U657			

#### Algebra

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Торіс	Topic code	R	Α	G
Linear equations	U325, U870, U599			
Linear inequalities	U759, U738, U145, U337			
Index laws	U662			
Linear simultaneous equations	U760, U757, U836, U137			
Linear graphs and coordinates	U315, U669, U477, U848, U377			
Quadratic graphs and equations	U989, U667, U228, U601			

### Ratio and proportion

Торіс	Topic code	R	Α	G
Ratio	U687, U753, U176, U577, U921, U865			
Speed	U151			
Density and pressure	U910, U527			
Proportion	U721, U357, U610			

#### Geometry

Торіс	Topic code	R	Α	G
Area	U226, U343, U950			
Volume	U786, U174, U915			
Angles	U655, U826, U329, U427			
Pythagoras' theorem	U385			
Trigonometry	U605, U283, U545			
Transformations	U196, U799, U696, U519, U766			

### **Probability and Statistics**

Торіс	Topic code	R	Α	G
Calculating probabilities	U408, U510, U683, U580			
Expected outcomes	U166			
Tree diagrams	U558, U729			
Set notation	U748, U296			
Averages	U717, U569			
Averages with grouped data	U877			
Sampling	U162			
Scatter graphs	U199, U277, U128			
Frequency polygons	U840			

# Grade 6-9

### Number

Торіс	Topic code	R	Α	G
Calculating with roots and fractional indices	U851, U985, U772, U299			
Converting recurring decimals to fractions	U689			
Surds	U338, U663, U872, U499			
Rationalising the denominator	U707, U281			
Error intervals	U657, U301, U587			

# Algebra

Торіс	Topic code	R	Α	G
Expanding triple brackets	U606			
Operations with algebraic fractions	U685, U457, U824			
Factorising quadratic expressions: ax <sup>2</sup> +bx+c	U858			
Simplifying algebraic fractions	U294			
Factorising to solve quadratics equations	U228, U960			
Using the quadratic formula	U665			
Completing the square to solve quadratics	U397, U589			
Quadratic equations in context	U150			
Quadratic simultaneous equations	U547			
Index laws	U235, U694, U662			
Equation of a straight line: Perpendicular lines	U898			
Quadratic graphs: Turning points	U769			
Quadratic simultaneous equations on graphs	U875			
Exponential graphs	U229			
Exponential growth and decay problems	U988			
Trigonometric graphs	U450			
Graph transformations	U598, U487, U455			
Velocity-time graphs	U937, U562, U611			
Rate of change graphs	U638, U652, U862			
Estimating gradient from a curve	U800			
Estimating area under a curve	U882			
Equation of a circles and tangents	U567			
Linear inequalities as graph regions	U747			
Quadratic inequalities	U133			
Functions	U637, U895, U448, U996			
Recurrence relations	U171			
Quadratic sequences	U206			
Iteration and numerical methods	U434, U168			
Algebraic proof	U582			

# Ratio and proportion

Торіс	Topic code	R	Α	G
Algebraic direct and inverse proportion	U407, U138			
Compound units: Density problem solving	U910			

### Geometry

Торіс	Topic code	R	Α	G
Congruence proofs	U866, U887			
Enlargements	U134			
Describe combined transformations	U766			
Circle theorems: Angles inside a circle	U459, U251			
Circle theorems: Tangents and chords	U489, U130			
Circle theorems problems	U808			
Prove circle theorems	U807			
Volume of frustums	U350			
Volume: Problem solving	U543, U426			
Similar Shapes: Area and volume	U630, U110			
Pythagoras' Theorem in 2D and 3D	U385, U541			
Right-angled trigonometry: Problem solving	U319, U283, U545, U967			
3D trigonometry	U170			
The area rule	U592			
Sine rule	U952			
Cosine rule	U591			
Trigonometry and bearings	U164			
Vectors problems	U781, U560			

# Probability

Торіс	Topic code	R	Α	G
Product rule for counting	U369			
Conditional probability	U246, U821, U806			
Probability from Venn diagrams	U476, U748, U699			

### **Statistics**

Торіс	Topic code	R	Α	G
Averages	U877, U717			
Cumulative frequency diagrams	U182, U642			
Box plots	U879, U837, U507			
Frequency polygons	U840			
Histograms	U814, U983, U267			
Capture-recapture	U328			