

# GCSE Revision 2025

## Higher Topics



Week	Revision topic
17 <sup>th</sup> Feb	Number
24 <sup>th</sup> Feb	Algebra - Quadratics
3 <sup>rd</sup> March	Simultaneous Equations and Inequalities
10 <sup>th</sup> March	Statistics
17 <sup>th</sup> March	Geometry - Shape
24 <sup>th</sup> March	Algebra - Graphs
31 <sup>st</sup> March	Ratio and Proportion
7 <sup>th</sup> April	Geometry – Trigonometry
14 <sup>th</sup> April	Algebra – Algebraic Expressions
21 <sup>st</sup> April	Geometry – Circle Theorems
28 <sup>th</sup> April	Probability
5 <sup>th</sup> May	Algebra – Further Algebra

### Number

Topic	Topic code	R	A	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

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

### Ratio and proportion

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

### Geometry

	Topic	Topic code	R	A	G
Shape	Congruence proofs	U866, U887			
	Enlargements	U134			
	Describe combined transformations	U766			
	Volume of frustums	U350			
	Volume: Problem solving	U543, U426			
	Similar Shapes: Area and volume	U630, U110			
	Vectors problems	U781, U560			
Circle theorems	Circle theorems: Angles inside a circle	U459, U251			
	Circle theorems: Tangents and chords	U489, U130			
	Circle theorems problems	U808			
	Prove circle theorems	U807			
Trigonometry	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			

### Probability

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

### Statistics

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