

Year 11 - GCSE Mathematics Revision List (Higher)

Non-Calculator Topics	Revised it?	
Multiplication and division of decimals (without a calculator)		
Venn diagrams		
Adding/subtracting/multiplying with mixed number fractions		
Percentage increase/decrease		
Ratio problem solving		
Volume of 3D shapes (cubes/cuboids/prisms)		
Surface area of 3D shapes (cubes/cuboids/spheres)		
Solving quadratic equations		
Laws of indices		
Estimation		
Areas of 2D shapes (squares, rectangles, triangles, trapezia)		
Cumulative frequency graphs		
Converting a recurring decimal into a fraction		
Calculations involving algebraic fractions		
Probability		
Shading regions (graphs of inequalities)		
Surds - rationalising the denominator		
Equation of a circle		
Function notation - composite functions, inverse functions		
Turning points of a quadratic graph		

Calculator Topics	Revised it?
Inequalities on a number line	
HCF-Highest Common Factor & LCM-Lowest Common Multiple	
Distance-time graphs	
Quadratic graphs	
Pythagoras' Theorem	
Trigonometry	
Compound measures - speed, density, pressure	
Cumulative frequency graph	
Box plots	
Compound interest	
Equations of straight lines - gradient, parallel, perpendicular	
Expanding triple brackets	
Product rule for counting	
Circle theorems	
Non-right-angled trigonometry	
Iteration	

Histograms	
Graphs of trigonometric functions	
Length scale factor/area scale factor/volume scale factor	
Surface area of a sphere	

Probability	
Upper and lower bounds	
Scatter Graphs	
Ratio problem solving	
Standard form	
Rates of change	
Fibonacci sequences	
Area of a circle/Area of a sector of a circle	
Sketching graphs - linear/quadratic/cubic/reciprocal/proportion/trigonometric	
Similar shapes	
Writing down an error interval	
Laws of indices	
Solving quadratic equations	
Direct proportion	
Vectors	
Area under a curve	
Algebraic fractions	
Proof	