

## Year 11 - GCSE Mathematics Revision List (Foundation)

Non-Calculator Topics	Revised it?
Converting between fractions, decimals and percentages	
Ordering numbers including negatives or decimals	
Rounding to the nearest 10, 100, 1000	
Powers - writing down the value of something with a power	
Names of 2D and 3D shapes	
Multiplication and division (without a calculator)	
Bar charts	
Calculations with money	
Negative numbers in real life	
Pictograms	
Interpreting parts of a ratio as fractions	
Non-linear sequences	
Direct proportion	
Expanding/Factorising - single bracket	
Solving equations	
Direct proportion - recipes	
Plotting straight line graphs of the form $y=mx + c$	
Calculating percentage change	
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)	
Writing down an error interval	
Gradient and y-intercept of a straight line ( $y=mx + c$ )	

Calculator Topics	Revised it?
Converting between fractions, decimals and percentages	
Converting between metric units of length (mm, cm, m, km)	
Ordering numbers including negatives, decimals or fractions	
Simplifying expressions	
Scale drawings	
Types of number - factors, primes, squares, multiples	
Direct proportion	
Interpreting frequency diagrams	
Order of operations (BIDMAS)	

Transformation of shapes (translation/reflection/rotation/enlargement)	
Scientific calculator skills	
Angle facts (straight line, at a point, vertically opposite)	
Conversion graphs	
Pie charts	
Frequency trees	
Averages from a frequency table	
Money problems	
Laws of indices (also known as index laws)	
Inequalities on a number line	
HCF-Highest Common Factor & LCM-Lowest Common Multiple	
Distance-time graphs	
Quadratic graphs	
Pythagoras' Theorem	
Trigonometry	
Reverse percentages	
Time calculations	
Calculating a fraction of an amount	
Listing outcomes	
Two-way tables	
Calculations with ratio and percentages	
Expanding/Factorising - single bracket	
Conversions between units of area ( $\text{mm}^2$ , $\text{cm}^2$ , $\text{m}^2$ , $\text{km}^2$ )	
Stem and leaf diagrams	
Scattergraphs	
Standard form	
Rates of change	
Fibonacci sequences	
Probability	
Area of a circle/Area of a sector of a circle	