

Revision Schedule 2026

Year 11 Revision Schedule 2026-27

Topics highlighted will be assessed in October Trail exams

Subject/Course:	GCSE Maths Higher
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Topic	Key knowledge/skills/questions	R	A	G	Revised	Resources/activities/links – Mathswatch Clip Numbers
1a Calculations, checking and rounding	- Four operations with decimals - Product rule - Rounding and estimation					17, 18, 66, 67, 69, 91
1b Indices, roots, reciprocals and order of operations	- Use index notation - Fractional and negative indices - Order of operations					82 131 154 188
1c Factors multiples and primes	- Factors multiples and primes - Prime factorization - HCF and LCM					78 79 80
1d Standard form and surds	- Index laws - Standard form - Simplifying surds					82 83 207a 207b
2a Algebra: the basics	- Forming expressions - Simplify expressions - Expand single and double brackets - Factorise linear and quadratics - Difference of two squares					137 93 134a 134b 94 157 192
2b Setting up, rearranging and solving equations	- Set up expressions - Substitution - Solving equations and inequalities - Changing the subject - Iterations					95 135a 139 136 190 179 180
2c Sequences	- Continue sequences - Nth term					102 104 141 103 213 163

Revision Schedule 2026

	- Quadratic sequences - Geometric progressions					
3a Averages and range	- Two way tables - Averages and the range from a list, table and grouped data - Stem and Leaf diagrams					130a 130b 128b
3b Representing and interpreting data	- Bar charts - Line graphs - Pie charts - Comparing pie charts - Histograms - Compare distributions					128a 205
3c Scatter graphs	- Scatter graphs - Line of best fit - Outliers and correlation					129
4a Fractions	- Equivalent fractions - Calculating with fractions and mixed numbers - Recurring decimals proof - Fraction of an amount					70 71 73 74 72 177 189
4b Percentages	- Fractions decimals and percentages - Percentage of amount - Percentage increase/decrease - Increase/decrease by a percentage - Reverse percentages					85 86 87 108 109 88 89 110
4c Ratio and Proportion	- Simplify ratio - Share I ratio - Unitary form - Recipes - Currency conversion					106 107 165a 165b 165c 200a 200b 200c
5a Polygons, angles and parallel lines	- Measure and draw lines - Use angle facts - Angles in parallel lines					120 121 122 123

Revision Schedule 2026

	Angles in polygons					
5b Pythagoras theorem and trigonometry	- Pythagoras - Trigonometry - Trig exact values					150a 150b 150c 168 173
6a Graphs: the basics and real life graphs	- Conversion graphs - Distance time graphs - Velocity time graphs - Midpoint of a line - Length of a line segment					107 112 143 216a 133
6b Linear Graphs and Coordinate Geometry	- Draw, use and interpret straight line graphs - Equation of a line through two points - Equation of a line from graph - Equations of parallel and perpendicular lines					96 159a 159b 208
6c Quadratic, cubic and other graphs	- Plot quadratic graphs - Roots intercepts and turning points of quadratics - Recognise and sketch cubic graphs - Reciprocal functions - Graphs of circles - Metric measures					98 160 161 197
7a Perimeter, area and circles	- Perimeter - Area (including circles) - Parts of a circle - Arcs and sectors - Properties of solids					118 117 149 167
7b 3D forms and volume, cylinders cones and spheres	- Volume of a cuboid, prisms, composite forms - Surface area of prisms - Surface area and volume of cylinder - Spheres, pyramids, cones, frustums and composite solids.					115 119 169 114a 114b 170 171

Revision Schedule 2026

7c Accuracy and Bounds	- Upper and lower bounds of numbers - Upper and lower bound calculations - Error intervals					132 155a 155b 206
8a Transformations	- Describe and carry out transformations - Fractional and negative enlargement - Combinations of transformations					48 49 50 148 181 182
8b Constructions, loci and bearings	- Plans and elevations - Scale drawings - Bearings - Constructions - Loci					51 124 145a 145b 145c 146 147
9a Solving quadratic and simultaneous equations	- Set up and solve quadratics - Completing the square - Quadratic formula - Solve simultaneous equations graphically and algebraically (including quadratics and circles)					209 191 211
9b Inequalities	- Inequalities on a number line - Listing numbers that satisfy an inequality - Solving inequalities - Represent inequalities graphically					138 139 212 198
10 Probability	- Probability scale - Listing outcomes - Two way tables - Frequency trees - Relative frequency - Sample space diagrams - Venn diagrams and set notation - Probability trees					14 59 125 185 204 57 151 175
11 Multiplicative reasoning	- Best value - Compound measures: pressure, density & speed - Percentage profit/loss					41 142 111 164

Revision Schedule 2026

	- Reverse percentages - Simple interest - Compound interest and growth - Depreciation and decay - Rates of pay					
12 Similarity and congruence in 2d and 3d	- Use congruence criteria for triangles - Geometric proof for similarity and congruence - Similar shapes - Length area and volume scale factors - Area and surface area of frustums					12b 166 144 201 172
13a Graphs of trigonometric functions	- Recognise, sketch and interpret graphs of the trigonometric functions - Exact trig values - Transforming graphical functions					195 173 196b
13b Further Trigonometry	- Area of a triangle - Sine rule - Cosine rule - Pythagoras in 3d - Trig in 3d					202a 202b 203 218 217
14a Collecting data	- Types of data - Bias/eliminating bias					63 152
14b Cumulative frequency, box plots and histograms	- Construct & interpret cumulative frequency tables and graphs - Median, quartiles & interquartile range from cumulative diagrams - Construct and interpret box plots - Median, quartiles and IQR from box plots - Construct histograms - Interpret histograms					182 187 205
15 Quadratic, expanding more than two	- Sketch quadratics - Identify roots, turning points and intercepts of quadratic graphs					178 198

Revision Schedule 2026

brackets, sketching graphs	- Completing the square - Expand polynomials - Sketch cubics - Solve simultaneous equations graphically - Solve and represent quadratic inequalities					
16a Circle theorems	Prove, recall and apply circle theorems					183 184
16b Circle geometry	- Graphs of circles - Find the equation of a tangent to a circle					197 208
17 Complex algebra	- Rationalising involving surds - Simplify, multiple and divide algebraic fractions - Change the subject of a complex formula - Algebraic proof - Functions and function notation - Inverse functions - Composite functions					207c 210a 210b 190 214a 214b 215 193
18 Vectors and geometric proofs	- Represent and use vector notation - Find the length of a vector - Calculate the resultant vector - Geometric problems in 2d where vectors are divided in a given ratio - Geometric proofs to prove points are collinear and vectors/lines are parallel					174 219
19A Reciprocal and exponential graphs	- Recognise, sketch and interpret reciprocal graphs - Calculate and interpret the area under a curve - Calculate and interpret gradient of a tangent to a curve					76 161 216a 216b

Revision Schedule 2026

19b Direct and inverse proportion	- Recognise and interpret graphs of direct and inverse proportion - Set up and use formulae for direct and inverse proportion.					199
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