Year 11 Revision Schedule 2026

Subject/Course:	GCSE Maths Higher

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 • Quadratic sequences					**102 104 141 103 213 163**

Revision Schedule 2026

Topic	Key knowledge/skills/questions	R	A	G	Revised	Resources/activities/links – Mathswatch Clip Numbers
	• 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 • Reccuring 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 • Direct and inverse proportion					**106 107 165a 165b 165c 200a 200b 200c 199**

Revision Schedule 2026

Topic	Key knowledge/skills/questions	R	A	G	Revised	Resources/activities/links – Mathswatch Clip Numbers
5a Polygons, angles and parallel lines	• Measure and draw lines • Use angle facts • Angles in parallel lines • Angles in polygons					**120 121 122 123**
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					**98 160 161 197**
7a Perimeter, area and circles	• Metric measures • Perimeter • Area (including circles) • Parts of a circle • Arcs and sectors					**118 117 149 167**
7b 3D forms and volume, cylinders	• Properties of solids • Volume of a cuboid, prisms, composite forms					**115 119 169 114a 114b 170 171**

Revision Schedule 2026

Topic	Key knowledge/skills/questions	R	A	G	Revised	Resources/activities/links – Mathswatch Clip Numbers
cones and spheres	• Surface area of prisms • Surface area and volume of cylinder • Spheres, pyramids, cones, frustums and composite solids.					
7c Accuracy and Bounds	• Upper and lower bounds of umbers • 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					**14 59 125 185 204 57 151 175**

Revision Schedule 2026

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	• Probability trees					
11 Multiplicative reasoning	• Best value • Compound measures: pressure, density & speed • Percentage profit/loss • Reverse percentages • Simple interest • Compound interest and growth • Depreciation and decay • Rates of pay					**41 142 111 164**
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					**182 187 205**

Topic	Key knowledge/skills/questions	R	A	G	Revised	Resources/activities/links – Mathswatch Clip Numbers
	• Median, quartiles and IQR from box plots • Construct histograms • Interpret histograms					
15 Quadratic, expanding more than two brackets, sketching graphs	• Sketch quadratics • Identify roots, turning points and intercepts of quadratic graphs • Completing the square • Expand polynomials • Sketch cubics • Solve simultaneous equations graphically • Solve and represent quadratic inequalities					**178 198**
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 colinear and vectors/lines are parallel					**174 219**

Revision Schedule 2026

Topic	Key knowledge/skills/questions	R	A	G	Revised	Resources/activities/links – Mathswatch Clip Numbers
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**
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**