

# GCSE Maths - Year 10 Higher Revision List

Number Topics	Clip	Revised
Complex calculations using a calculator	129	
Round to significant figures	130	
Estimation	131	
Percentage change	97	
Convert recurring decimals to fractions	54	
One number as a percentage of another	62, 76	
Percentage of an amount	84	
Percentage increase	88	
Sharing in a given ratio	332	
HCF	31	
Compound interest	94	
Change from ordinary to standard form	122	
Standard form calculations	126, 127	
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Percentage profit problem solving	760	
Best buys with percentages	771	
Ratio problem solving	336, 329	
Brackets involving surds	116	
Rationalising surds	119	
Inverse proportion	342	

## Algebra Topics

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Index form (combination of rules)	110	
Substitution (including equations of motion)	786-788	
Drawing quadratic graphs from a table	251	
Find the x-intercept (roots) of a quadratic graph	253	
Find the turning point of a quadratic graph	255	
Expand triple brackets	166	
Indices with algebraic expressions	174	
Change the subject of a formula (2-step)	281	
Gradient, solve 2-step equations	201, 181	
Simplify algebraic fractions (involving quadratics)	229	
Write algebraic fractions as a single fraction	224	
Factorise quadratic expressions	226	
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Simultaneous equations	191-194	

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Graph transformations $f(x \pm a)$	308	
Graph transformations $f(-x)$ /y-axis	312	
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### **Shape and Measures**

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Non-calculator trigonometry (exact values)	845	
Non-calculator trigonometry	848	
Volume of a cube and cuboid	568	
Use angle facts to solve problems	477, 481, 485	
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Combined transformations	657	
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Volume	578, 580	
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Area of a circle problem solving	542	
Find perimeter using arc length and sine rule	522, 545	
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Describing transformations (enlargements)	651	
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Proof using circle theorems and angle facts	593, 597	

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Interpreting box plots	436	
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