

KS4 Learning Journey
GCSE Higher Tier – Year 11 Learning Cycle 1

Please watch the video on www.corbettmaths.com for each topic.

Further Quadratics	Video number
Plot a quadratic graph from a table of values	264
Find the roots of a quadratic from the graph	267a
Solve a quadratic equation using the quadratic formula	267
Complete the square for a quadratic	10
Use the completed square form to solve a quadratic equation	267a
Use the completed square form to deduce the turning point of a quadratic graph	371
Solve a quadratic equation which requires rearranging into the form $ax^2 + bx + c = 0$	

Graphs	Video number
Use and interpret scatter graphs	165,166
Recognise correlation and understand that it does not indicate causation	168
Draw lines of best fit and use them to make predictions	167
Interpret and construct tables, charts and diagrams	51,147, 148,148a, 148b
Interpret and construct pie charts	163,164

Advanced Simultaneous Equations	Video number
Solve a linear equation and a quadratic equation simultaneously	298
Use the above to find the intersection coordinates of a straight line and a curve including circles	298

Vectors	Video number
Addition and subtraction of vectors and multiplication of vectors by a scalar	353a
Diagrammatic and column representations of vectors	353a
Use of vectors to construct geometric arguments and proofs	353

Advanced Trigonometry	Video number
Know and apply the sine rule to find angles and sides	333,334
Know and apply the cosine rule to find angles and sides	335,336
Know and apply the trigonometric formula for area of a triangle	337
Recognise and sketch the graphs for $y=\cos x$, $y=\sin x$, $y=\tan x$	338,339,340
Sketch translations and reflections of a given function	323,324

Indices and Standard Form	Video number
Understand and calculate with negative indices	173
Understand and calculate with fractional indices	175
Convert between numbers given in and out of standard form	300
Calculate with numbers in standard form	301,302,303

Bounds	Video number
Use inequalities to represent error bounds when rounding numbers	377
State and use error bounds	377

KS4 Glossary
GCSE Higher Tier – Year 11 Learning Cycle 1

Further Quadratics

Graphs	
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Correlation	Correlation measures the type and strength of the relationship between items of bivariate data.
Outlier	A value which is untypically small or large, when compared to the data as a whole, is an outlier.

Advanced Simultaneous Equations

Vectors

Advanced Trigonometry

Indices and Standard Form

Bounds	
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Error Interval	An error interval is the range of values that a number could have taken before being rounded or truncated. Error intervals are usually written as a range using inequalities, with a lower bound and an upper bound.
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