

Year 11 Higher Support work

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7		Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn Term	<u>Algebra: quadratics, rearranging and fractions</u>			<u>3D representation, volume, congruency</u>			<u>Iteration</u>		<u>Linear graphs</u>	<u>Further graphs and equation of a circle</u>			<u>Collecting and representing data</u>		
Spring Term	<u>Mock exams</u>		<u>Statistical measures</u>	<u>Transformations</u>				<u>vector</u>	<u>Transforming functions</u>	<u>Growth and decay</u>					
Summer Term	<u>Gradient and rates of change</u>	<u>Area under a curve</u>	<u>Revision</u>	GCSE					GCSE						

Starter a day <https://corbettmaths.com/5-a-day/gcse/>

Select foundation plus, higher or higher plus option for the date

Autumn BLOCK 1 – Page 1 of 3	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Expanding binomials (double bracket)	https://vle.mathswatch.co.uk/vle/browse/296	https://vle.mathswatch.co.uk/vle/browse/296/practice	https://corbettmaths.com/wp-content/uploads/2013/02/expanding-two-brackets-pdf2.pdf
Expanding 3 binomials (more than double bracket)	https://vle.mathswatch.co.uk/vle/browse/345	https://vle.mathswatch.co.uk/vle/browse/345/practice	https://corbettmaths.com/wp-content/uploads/2013/02/expanding-three-brackets-pdf1.pdf
Factorise quadratic	https://vle.mathswatch.co.uk/vle/browse/323 https://vle.mathswatch.co.uk/vle/browse/360	https://vle.mathswatch.co.uk/vle/browse/323/practice https://vle.mathswatch.co.uk/vle/browse/360/practice	https://corbettmaths.com/wp-content/uploads/2018/09/Factorising-Quadratics-pdf.pdf https://corbettmaths.com/wp-content/uploads/2018/11/Factorising-harder-quadratics-pdf.pdf https://corbettmaths.com/wp-content/uploads/2013/02/solving-quadratics-by-factorising-1-pdf.pdf
Difference of 2 squares	https://vle.mathswatch.co.uk/vle/browse/324	https://vle.mathswatch.co.uk/vle/browse/324/practice	https://corbettmaths.com/wp-content/uploads/2018/09/Difference-Between-Two-Squares-pdf.pdf
Completing the square	https://vle.mathswatch.co.uk/vle/browse/381 https://vle.mathswatch.co.uk/vle/browse/382	https://vle.mathswatch.co.uk/vle/browse/381/practice https://vle.mathswatch.co.uk/vle/browse/382/practice	https://corbettmaths.com/wp-content/uploads/2013/02/solving-using-completing-the-square-pdf.pdf
Quadratic formula	https://vle.mathswatch.co.uk/vle/browse/359	https://vle.mathswatch.co.uk/vle/browse/359/practice	https://corbettmaths.com/wp-content/uploads/2021/09/Quadratic-Formula.pdf

Autumn BLOCK 1- continued	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Simplify expressions (sums, products and powers)	https://vle.mathswatch.co.uk/vle/browse/188 https://vle.mathswatch.co.uk/vle/browse/189 https://vle.mathswatch.co.uk/vle/browse/190	https://vle.mathswatch.co.uk/vle/browse/188/practice https://vle.mathswatch.co.uk/vle/browse/189/practice https://vle.mathswatch.co.uk/vle/browse/190/practice	https://corbettmaths.com/wp-content/uploads/2013/02/collecting-like-terms-pdf3.pdf https://corbettmaths.com/wp-content/uploads/2013/02/multiplying-terms-pdf1.pdfv https://corbettmaths.com/wp-content/uploads/2013/02/dividing-terms-pdf1.pdf https://corbettmaths.com/wp-content/uploads/2013/02/laws-of-indices-pdf.pdf
Rearrange formula	https://vle.mathswatch.co.uk/vle/browse/299 https://vle.mathswatch.co.uk/vle/browse/358	https://vle.mathswatch.co.uk/vle/browse/299/practice https://vle.mathswatch.co.uk/vle/browse/358/practice	https://corbettmaths.com/wp-content/uploads/2013/02/changing-the-subject-pdf1.pdf https://corbettmaths.com/wp-content/uploads/2013/02/changing-the-subject-advanced-pdf1.pdf
Functions: Simple input and outputs Inverse functions Composite functions	https://vle.mathswatch.co.uk/vle/browse/191 https://vle.mathswatch.co.uk/vle/browse/389 https://vle.mathswatch.co.uk/vle/browse/390 https://vle.mathswatch.co.uk/vle/browse/391	https://vle.mathswatch.co.uk/vle/browse/191/practice https://vle.mathswatch.co.uk/vle/browse/389/practice https://vle.mathswatch.co.uk/vle/browse/390/practice https://vle.mathswatch.co.uk/vle/browse/391/practice	https://corbettmaths.com/wp-content/uploads/2019/02/Function-Machines.pdf https://corbettmaths.com/wp-content/uploads/2020/05/Functions.pdf

Autumn BLOCK 1 - continued	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Algebraic fractions	https://vle.mathswatch.co.uk/vle/browse/384 https://vle.mathswatch.co.uk/vle/browse/385	https://vle.mathswatch.co.uk/vle/browse/384/practice https://vle.mathswatch.co.uk/vle/browse/385/practice	https://corbettmaths.com/wp-content/uploads/2019/12/Simplifying-Algebraic-Fractions.pdf https://corbettmaths.com/wp-content/uploads/2013/02/multiplying-algebraic-fractions-pdf.pdf https://corbettmaths.com/wp-content/uploads/2013/02/dividing-algebraic-fractions-pdf1.pdf https://corbettmaths.com/wp-content/uploads/2013/02/adding-algebraic-fractions-pdf.pdf

Autumn BLOCK 2 – page 1 of 2	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Plans and elevations	https://vle.mathswatch.co.uk/vle/browse/207	https://vle.mathswatch.co.uk/vle/browse/207/practice	https://corbettmaths.com/2019/09/09/view-s-and-elevations-practice-questions/
Volume of cuboids and other prisms	https://vle.mathswatch.co.uk/vle/browse/274 https://vle.mathswatch.co.uk/vle/browse/278	https://vle.mathswatch.co.uk/vle/browse/274/practice https://vle.mathswatch.co.uk/vle/browse/278/practice	https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cuboid-pdf1.pdf https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-prism-pdf1.pdf https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cylinder-pdf1.pdf
Volume of pyramids, cones and spheres	https://vle.mathswatch.co.uk/vle/browse/337 https://vle.mathswatch.co.uk/vle/browse/338 https://vle.mathswatch.co.uk/vle/browse/336	https://vle.mathswatch.co.uk/vle/browse/337/practice https://vle.mathswatch.co.uk/vle/browse/338 https://vle.mathswatch.co.uk/vle/browse/336/practice	https://corbettmaths.com/wp-content/uploads/2021/09/Volume-of-a-Pyramid-pdf.pdf https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cone-pdf2.pdf https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-sphere-pdf1.pdf
Frustums	https://vle.mathswatch.co.uk/vle/browse/339	https://vle.mathswatch.co.uk/vle/browse/339/practice	https://corbettmaths.com/wp-content/uploads/2021/10/Volume-of-a-Frustum.pdf

Autumn BLOCK 2 – continued	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Congruent shapes	https://vle.mathswatch.co.uk/vle/browse/166	https://vle.mathswatch.co.uk/vle/browse/166/practice	https://corbettmaths.com/wp-content/uploads/2019/02/Congruent-Shapes-Textbook.pdf
	https://vle.mathswatch.co.uk/vle/browse/333	https://vle.mathswatch.co.uk/vle/browse/333/practice	https://corbettmaths.com/wp-content/uploads/2019/02/Congruent-Triangles-pdf.pdf
Similar shapes	https://vle.mathswatch.co.uk/vle/browse/307	https://vle.mathswatch.co.uk/vle/browse/307/practice	https://corbettmaths.com/wp-content/uploads/2021/09/Similar-Shapes-Textbook.pdf
Similarity – Area and volume	https://vle.mathswatch.co.uk/vle/browse/370	https://vle.mathswatch.co.uk/vle/browse/370/practice	https://corbettmaths.com/wp-content/uploads/2021/10/Similar-Shapes-Area-Volume-1.pdf

Autumn BLOCK 3	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Iteration	https://vle.mathswatch.co.uk/vle/browse/347	https://vle.mathswatch.co.uk/vle/browse/347/practice	https://corbettmaths.com/wp-content/uploads/2013/02/iteration-pdf.pdf

Autumn BLOCK 4	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Linear graphs - plot	https://vle.mathswatch.co.uk/vle/browse/254	https://vle.mathswatch.co.uk/vle/browse/254/practice	https://corbettmaths.com/wp-content/uploads/2019/01/Drawing-Linear-Graphs.pdf
The gradient of a line	https://vle.mathswatch.co.uk/vle/browse/255	https://vle.mathswatch.co.uk/vle/browse/255/practice	https://corbettmaths.com/wp-content/uploads/2018/12/Gradient-pdf.pdf
Equation of a linear graph	https://vle.mathswatch.co.uk/vle/browse/325 https://vle.mathswatch.co.uk/vle/browse/326	https://vle.mathswatch.co.uk/vle/browse/325/practice https://vle.mathswatch.co.uk/vle/browse/326/practice	https://corbettmaths.com/wp-content/uploads/2020/07/Equation-of-a-Line.pdf
Perpendicular lines	https://vle.mathswatch.co.uk/vle/browse/380	https://vle.mathswatch.co.uk/vle/browse/380/practice	https://corbettmaths.com/wp-content/uploads/2013/02/parallel-and-perpendicular-graphs-pdf.pdf

Autumn BLOCK 5	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Solve linear equations graphically, including an simultaneous equations	https://vle.mathswatch.co.uk/vle/browse/303	https://vle.mathswatch.co.uk/vle/browse/303/practice	https://corbettmaths.com/wp-content/uploads/2021/09/Graphical-Simultaneous.pdf
Solve quadratic graphs - roots and turning point. Including by completing the square	https://vle.mathswatch.co.uk/vle/browse/327	https://vle.mathswatch.co.uk/vle/browse/327/practice	https://corbettmaths.com/wp-content/uploads/2019/06/Drawing-Quadratics.pdf https://corbettmaths.com/wp-content/uploads/2019/04/Sketching-Quadratics.pdf https://corbettmaths.com/2023/04/17/turning-points-using-completing-the-square-practice-questions/
Cubic and reciprocal graphs	https://vle.mathswatch.co.uk/vle/browse/328	https://vle.mathswatch.co.uk/vle/browse/328/practice	https://corbettmaths.com/wp-content/uploads/2013/02/cubic-graphs-pdf.pdf https://corbettmaths.com/wp-content/uploads/2013/02/reciprocal-graphs-pdf.pdf
Exponential functions	https://vle.mathswatch.co.uk/vle/browse/362	https://vle.mathswatch.co.uk/vle/browse/362/practice	https://corbettmaths.com/wp-content/uploads/2013/02/exponential-graphs-pdf.pdf
Equation of a circle	https://vle.mathswatch.co.uk/vle/browse/367	https://vle.mathswatch.co.uk/vle/browse/367/practice	https://corbettmaths.com/wp-content/uploads/2013/02/equation-of-a-circle-pdf2.pdf

Autumn BLOCK 6 – page 1 of 2	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Frequency table and diagram	https://vle.mathswatch.co.uk/vle/browse/221	https://vle.mathswatch.co.uk/vle/browse/221/practice	
Bar charts	https://vle.mathswatch.co.uk/vle/browse/169	https://vle.mathswatch.co.uk/vle/browse/169/practice	https://corbettmaths.com/wp-content/uploads/2019/02/Bar-Charts.pdf https://corbettmaths.com/wp-content/uploads/2018/12/Reading-Bar-Charts.pdf
Pie Charts	https://vle.mathswatch.co.uk/vle/browse/288	https://vle.mathswatch.co.uk/vle/browse/288/practice	https://corbettmaths.com/wp-content/uploads/2019/01/Drawing-Pie-Charts.pdf https://corbettmaths.com/wp-content/uploads/2018/09/Pie-Charts-pdf.pdf
Time series	https://vle.mathswatch.co.uk/vle/browse/319	https://vle.mathswatch.co.uk/vle/browse/319/practice	https://corbettmaths.com/wp-content/uploads/2019/01/Line-Graphs-pdf.pdf
Scatter graphs and correlation	https://vle.mathswatch.co.uk/vle/browse/289	https://vle.mathswatch.co.uk/vle/browse/289/practice	https://corbettmaths.com/wp-content/uploads/2019/01/Scatter-Graphs-1.pdf

Autumn BLOCK 6 – continued	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Boxplots	https://vle.mathswatch.co.uk/vle/browse/355	https://vle.mathswatch.co.uk/vle/browse/355/practice	https://corbettmaths.com/wp-content/uploads/2019/07/Box-Plots-pdf.pdf
Cumulative frequency	https://vle.mathswatch.co.uk/vle/browse/354	https://vle.mathswatch.co.uk/vle/browse/354/practice	https://corbettmaths.com/wp-content/uploads/2021/02/Cumulative-Frequency.pdf
Histogram	https://vle.mathswatch.co.uk/vle/browse/375	https://vle.mathswatch.co.uk/vle/browse/375/practice	https://corbettmaths.com/wp-content/uploads/2020/05/Drawing-Histograms.pdf https://corbettmaths.com/wp-content/uploads/2020/07/Histograms.pdf

Spring BLOCK 7	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Central tendencies – Average	https://vle.mathswatch.co.uk/vle/browse/218 https://vle.mathswatch.co.uk/vle/browse/290 https://vle.mathswatch.co.uk/vle/browse/291	https://vle.mathswatch.co.uk/vle/browse/218/practice https://vle.mathswatch.co.uk/vle/browse/290/practice https://vle.mathswatch.co.uk/vle/browse/291/practice	https://corbettmaths.com/wp-content/uploads/2013/02/averages-and-range-pdf2.pdf https://corbettmaths.com/wp-content/uploads/2018/09/Median-from-a-Frequency-Table-pdf.pdf https://corbettmaths.com/wp-content/uploads/2013/02/mean-from-a-frequency-table-pdf3.pdf https://corbettmaths.com/wp-content/uploads/2018/09/Estimated-Mean-pdf.pdf
Spread and consistency – Range			

Spring BLOCK 8	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Reflections	https://vle.mathswatch.co.uk/vle/browse/204	https://vle.mathswatch.co.uk/vle/browse/204/practice	https://corbettmaths.com/wp-content/uploads/2013/02/reflections-pdf1.pdf
Rotations	https://vle.mathswatch.co.uk/vle/browse/205	https://vle.mathswatch.co.uk/vle/browse/205/practice	https://corbettmaths.com/wp-content/uploads/2013/02/rotations.pdf
Translations	https://vle.mathswatch.co.uk/vle/browse/206	https://vle.mathswatch.co.uk/vle/browse/206/practice	https://corbettmaths.com/wp-content/uploads/2013/02/translations-pdf1.pdf
Enlargements	https://vle.mathswatch.co.uk/vle/browse/312 https://vle.mathswatch.co.uk/vle/browse/348	https://vle.mathswatch.co.uk/vle/browse/312/practice https://vle.mathswatch.co.uk/vle/browse/348/practice	https://corbettmaths.com/wp-content/uploads/2019/01/Enlargements-pdf.pdf https://corbettmaths.com/wp-content/uploads/2019/03/Enlargements-with-Centre-of-Enlargement-pdf.pdf https://corbettmaths.com/wp-content/uploads/2019/02/Enlargements-Fractional-sf.pdf https://corbettmaths.com/wp-content/uploads/2021/09/Enlargements-Negative-SF.pdf
Combined transformations	https://vle.mathswatch.co.uk/vle/browse/350	https://vle.mathswatch.co.uk/vle/browse/350/practice	
Invariant point			https://corbettmaths.com/wp-content/uploads/2019/02/Invariant-Points-1.pdf

Spring BLOCK 9	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Column vector calculations	https://vle.mathswatch.co.uk/vle/browse/341	https://vle.mathswatch.co.uk/vle/browse/341/practice	https://corbettmaths.com/wp-content/uploads/2020/06/Column-Vectors.pdf
Vector geometry	https://vle.mathswatch.co.uk/vle/browse/395	https://vle.mathswatch.co.uk/vle/browse/395/practice	https://corbettmaths.com/wp-content/uploads/2013/02/vectors-pdf.pdf

Spring BLOCK 10	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Transforming functions	https://vle.mathswatch.co.uk/vle/browse/365 https://vle.mathswatch.co.uk/vle/browse/366	https://vle.mathswatch.co.uk/vle/browse/365/practice https://vle.mathswatch.co.uk/vle/browse/366/practice	https://corbettmaths.com/wp-content/uploads/2013/02/transformations-of-graphs-pdf1.pdf

Spring BLOCK 11	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Compound interest and depreciation	https://vle.mathswatch.co.uk/vle/browse/331	https://vle.mathswatch.co.uk/vle/browse/331/practice	https://corbettmaths.com/wp-content/uploads/2019/09/Compound-Interest-pdf-1.pdf

Summer BLOCK 12	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Gradient at a point on a curve - instantaneous rate of change	https://vle.mathswatch.co.uk/vle/browse/1683	https://vle.mathswatch.co.uk/vle/browse/1683/practice	https://corbettmaths.com/wp-content/uploads/2020/05/Rates-of-Change.pdf

Summer BLOCK 13	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Area under a graph – velocity time graph	https://vle.mathswatch.co.uk/vle/browse/392	https://vle.mathswatch.co.uk/vle/browse/392/practice	https://corbettmaths.com/wp-content/uploads/2019/04/Area-under-a-Graph-textbook.pdf