

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	18H Advanced Trigonometry		19H Construction and loci	20H Measures	21H Real life graphs	22H Gradient and rates of change	23H Area under a curve		Mock exams		24H Further graphs and equation of a circle		25H 3D representation, Volume, Congruency and Similarity		
Spring Term	26H Iteration	27H Collecting and representing data		28H Statistical measures		29H Transformations			30H Vectors	31H Functions and transforming functions		32H Probability			
Summer Term	Revision		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 18H	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Sine rule to find the area of a triangle $= \frac{1}{2} abs \sin C$	https://vle.mathswatch.co.uk/vle/browse/373	https://vle.mathswatch.co.uk/vle/browse/373	https://corbettmaths.com/wp-content/uploads/2017/12/trig-area-of-a-triangle-pdf1.pdf
Sine rule $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$	https://vle.mathswatch.co.uk/vle/browse/371	https://vle.mathswatch.co.uk/vle/browse/371/practice	https://corbettmaths.com/wp-content/uploads/2018/09/Sine-Rule-pdf.pdf
Cosine rule $a^2 = b^2 + c^2 - 2bc \cos A$	https://vle.mathswatch.co.uk/vle/browse/372	https://vle.mathswatch.co.uk/vle/browse/372/practice	https://corbettmaths.com/wp-content/uploads/2019/07/Cosine-Rule-pdf.pdf

Autumn BLOCK 19H	Mathswatch Video	Mathswatch Online questions – constructions and drawing online does not work out accurate. Paper questions are recommended	Corbett Maths
Triangles	https://vle.mathswatch.co.uk/vle/browse/203	https://vle.mathswatch.co.uk/vle/browse/203/practice	https://corbettmaths.com/wp-content/uploads/2019/02/Constructing-Triangles-1.pdf
Perpendicular bisector	https://vle.mathswatch.co.uk/vle/browse/309 https://vle.mathswatch.co.uk/vle/browse/310	https://vle.mathswatch.co.uk/vle/browse/309/practice https://vle.mathswatch.co.uk/vle/browse/310/practice	https://corbettmaths.com/wp-content/uploads/2019/02/Construction-Bisectors.pdf
Angle bisector	https://vle.mathswatch.co.uk/vle/browse/308	https://vle.mathswatch.co.uk/vle/browse/308/practice	https://corbettmaths.com/wp-content/uploads/2019/02/Construction-Bisectors.pdf
Loci	https://vle.mathswatch.co.uk/vle/browse/332	https://vle.mathswatch.co.uk/vle/browse/332/practice	https://corbettmaths.com/wp-content/uploads/2020/05/Loci.pdf

Autumn BLOCK 20H	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Convert units of measure	https://vle.mathswatch.co.uk/vle/browse/270	https://vle.mathswatch.co.uk/vle/browse/270/practice	https://corbettmaths.com/wp-content/uploads/2020/05/Metric-Units.pdf
Convert metric 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/2019/07/Converting-Areas-pdf.pdf https://corbettmaths.com/wp-content/uploads/2019/07/Converting-Volumes.pdf
Compound units	https://vle.mathswatch.co.uk/vle/browse/305	https://vle.mathswatch.co.uk/vle/browse/305/practice	https://corbettmaths.com/wp-content/uploads/2018/09/Speed-Distance-Time-pdf.pdf https://corbettmaths.com/wp-content/uploads/2013/02/density-pdf2.pdf https://corbettmaths.com/wp-content/uploads/2013/02/pressure-pdf1.pdf
Apply limits of accuracy and bounds	https://vle.mathswatch.co.uk/vle/browse/293 https://vle.mathswatch.co.uk/vle/browse/376	https://vle.mathswatch.co.uk/vle/browse/293/practice https://vle.mathswatch.co.uk/vle/browse/376/practice	https://corbettmaths.com/wp-content/uploads/2013/02/limits-of-accuracy-pdf1.pdf

Autumn BLOCK 21H	Mathswatch Video	Mathswatch Online questions	Corbett Maths
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/reciprocal-graphs-pdf.pdf
SDT graphs	https://vle.mathswatch.co.uk/vle/browse/306	https://vle.mathswatch.co.uk/vle/browse/306/practice	https://corbettmaths.com/wp-content/uploads/2013/02/distance-time-graphs-pdf.pdf
Conversation graphs – rate of change	https://vle.mathswatch.co.uk/vle/browse/265 After 3 mins https://corbettmaths.com/2021/11/18/real-life-graphs-video/	https://vle.mathswatch.co.uk/vle/browse/265/practice Graph questions	https://corbettmaths.com/wp-content/uploads/2019/02/Conversation-Graphs.pdf
Velocity – time graphs	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

Autumn BLOCK 22H	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Rates of change			https://corbettmaths.com/wp-content/uploads/2020/05/Rates-of-Change.pdf
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

Autumn BLOCK 23H	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

MOCK EXAM	Mathswatch Video	Mathswatch Online questions	Corbett Maths
<p>How to revise for a GCSE exam</p>    	<p>Maths is all about DOING and PRACTICING</p> <ol style="list-style-type: none"> 1. Identify where your gaps are: Use practice papers* and classwork to note any area you need to revise. 2. On MATHSWATCH watch the video for that topic and make notes/ flashcards. 3. Practice the skill or MATHSWATCH interactive questions, DR FROST key skills, CORBETT MATHS exam practice questions, MATHS GENIE exam practice questions. <p>Identify a new topic and repeat 1-3</p> <p>*Practice papers can be found</p> <ul style="list-style-type: none"> • Corbett maths Practice papers https://corbettmaths.com/2023/08/01/gcse-revision/ • Onmaths maths Predicted papers https://www.onmaths.com/ • AQA exam board website www.aqa.org.uk/find-past-papers-and-mark-schemes 		

Autumn BLOCK 24H	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 25H – 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 25H – 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/333	https://vle.mathswatch.co.uk/vle/browse/166/practice https://vle.mathswatch.co.uk/vle/browse/333/practice	https://corbettmaths.com/wp-content/uploads/2019/02/Congruent-Shapes-Textbook.pdf 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

Spring BLOCK 26H	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

Spring BLOCK 27H – 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

Spring BLOCK 27H – page 2 of 2	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 28H	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 29H	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 30H	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 31H	Mathswatch Video	Mathswatch Online questions	Corbett Maths
<p>Functions: Simple input and outputs Inverse functions</p> <p>Composite functions</p>	<p>https://vle.mathswatch.co.uk/vle/browse/191</p> <p>https://vle.mathswatch.co.uk/vle/browse/389</p> <p>https://vle.mathswatch.co.uk/vle/browse/390</p> <p>https://vle.mathswatch.co.uk/vle/browse/391</p>	<p>https://vle.mathswatch.co.uk/vle/browse/191/practice</p> <p>https://vle.mathswatch.co.uk/vle/browse/389/practice</p> <p>https://vle.mathswatch.co.uk/vle/browse/390/practice</p> <p>https://vle.mathswatch.co.uk/vle/browse/391/practice</p>	<p>https://corbettmaths.com/wp-content/uploads/2019/02/Function-Machines.pdf</p> <p>https://corbettmaths.com/wp-content/uploads/2020/05/Functions.pdf</p>
Transforming functions	<p>https://vle.mathswatch.co.uk/vle/browse/365</p> <p>https://vle.mathswatch.co.uk/vle/browse/366</p>	<p>https://vle.mathswatch.co.uk/vle/browse/365/practice</p> <p>https://vle.mathswatch.co.uk/vle/browse/366/practice</p>	<p>https://corbettmaths.com/wp-content/uploads/2013/02/transformations-of-graphs-pdf1.pdf</p>

Spring BLOCK 32H – page 1 of 3	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Probability scale	https://vle.mathswatch.co.uk/vle/browse/168	https://vle.mathswatch.co.uk/vle/browse/168/practice	https://corbettmaths.com/wp-content/uploads/2018/11/Probability-Scale.pdf
Calculating probabilities	https://vle.mathswatch.co.uk/vle/browse/215	https://vle.mathswatch.co.uk/vle/browse/215/practice	https://corbettmaths.com/wp-content/uploads/2021/03/Probability-2.pdf
Mutually exclusive events	https://vle.mathswatch.co.uk/vle/browse/216	https://vle.mathswatch.co.uk/vle/browse/216/practice	
Listing outcome	https://corbettmaths.com/2013/05/04/listing-outcomes/		https://corbettmaths.com/wp-content/uploads/2013/02/listing-outcomes-pdf1.pdf
Frequency trees	https://vle.mathswatch.co.uk/vle/browse/213	https://vle.mathswatch.co.uk/vle/browse/213/practice	https://corbettmaths.com/wp-content/uploads/2018/10/Frequency-Trees-Textbook-pdf.pdf

Spring BLOCK 32H – page 2 of 3	Mathswatch Video	Mathswatch Online questions	Corbett Maths
Relative frequency	https://vle.mathswatch.co.uk/vle/browse/284	https://vle.mathswatch.co.uk/vle/browse/284/practice	https://corbettmaths.com/wp-content/uploads/2018/12/Relative-Frequency-pdf.pdf
Sample space diagrams	https://vle.mathswatch.co.uk/vle/browse/285	https://vle.mathswatch.co.uk/vle/browse/285/practice	https://corbettmaths.com/wp-content/uploads/2021/03/Sample-Spaces.pdf
Venn diagrams	https://vle.mathswatch.co.uk/vle/browse/286 https://vle.mathswatch.co.uk/vle/browse/287 https://vle.mathswatch.co.uk/vle/browse/353	https://vle.mathswatch.co.uk/vle/browse/286/practice https://vle.mathswatch.co.uk/vle/browse/287/practice https://vle.mathswatch.co.uk/vle/browse/353/practice	https://corbettmaths.com/wp-content/uploads/2013/02/venn-diagrams-pdf.pdf

Spring BLOCK 32H – page 2 of 3	Mathswatch Video	Mathswatch Online questions	Corbett Maths
AND / OR probability	https://vle.mathswatch.co.uk/vle/browse/374	https://vle.mathswatch.co.uk/vle/browse/374/practice	
Independent probability trees	https://vle.mathswatch.co.uk/vle/browse/317	https://vle.mathswatch.co.uk/vle/browse/317/practice	https://corbettmaths.com/wp-content/uploads/2019/04/Tree-Diagrams.pdf https://corbettmaths.com/wp-content/uploads/2020/04/Independent-Events.pdf
Conditional probability trees	https://vle.mathswatch.co.uk/vle/browse/342	https://vle.mathswatch.co.uk/vle/browse/342/practice	https://corbettmaths.com/wp-content/uploads/2020/05/Conditional-Probability.pdf
Probability from a two way table	https://corbettmaths.com/2012/08/10/two-way-tables/		https://corbettmaths.com/wp-content/uploads/2019/03/Two-way-tables-pdf.pdf Page 3-4

MOCK EXAM	Mathswatch Video	Mathswatch Online questions	Corbett Maths
<p>How to revise for a GCSE exam</p>    	<p>Maths is all about DOING and PRACTICING</p> <ol style="list-style-type: none"> 1. Identify where your gaps are: Use practice papers* and classwork to note any area you need to revise. 2. On MATHSWATCH watch the video for that topic and make notes/ flashcards. 3. Practice the skill or MATHSWATCH interactive questions, DR FROST key skills, CORBETT MATHS exam practice questions, MATHS GENIE exam practice questions. <p>Identify a new topic and repeat 1-3</p> <p>*Practice papers can be found</p> <ul style="list-style-type: none"> • Corbett maths Practice papers https://corbettmaths.com/2023/08/01/gcse-revision/ • Onmaths maths Predicted papers https://www.onmaths.com/ • AQA exam board website www.aqa.org.uk/find-past-papers-and-mark-schemes 		