

Year 11 HIGHER Support for Home Learning 2020-21

These lessons have been put together using Corbett Maths, the Oak National Academy and onmaths. They are designed to be in line with the topics you would be doing if you were in school.

If the links on the document do not work for any reason, go to Corbett Maths, select 'worksheets' and use the videos and worksheets to guide you.

Remember to check your answers so that you can assess how well you have understood the topics.

Since you are in Year 11, you can also make revision cards/ posters to help you with topics you are less confident with.

If the work listed here is not enough, you can supplement it with work from your revision guide/ workbook. You can also use mymaths by working through the booster packs, or justmaths by working through the 'Super 60' topics.

	Topic being covered in school	Lessons for home learning	Additional activities
24 - 28 Aug - Aug	1 Phased return		
31 - 04 Aug - Sep	2 11.1.1 3D Pythag & Trig	Oak Academy Trigonometry 1 - 4 lessons to recap the basics Oak Academy Trigonometry 2 - finding angles and sides Oak Academy - mixed Pythag and Trig problems 3D Pythag VIDEO 3D Pythag WORKSHEET 3D Pythag ANSWERS 3D Trig VIDEO 3D Trig WORKSHEET 3D Trig ANSWERS	
07 - 11 Sep - Sep	3 11.2 Simplify surds	Oak Academy - Simplifying surds lessons Oak Academy - Adding surds Oak Academy - multiplying surds Oak Academy - rationalising	
14 - 18 Sep - Sep	4 TEST & REMEDIAL	Use the link below to have a go at some mini mock papers on onmaths as part of your revision: https://www.onmaths.com/mock_exams/?dashboardType=minimocks	
21 - 25 Sep - Sep	5 11.3.1 Solve quadratic equations	Oak Academy - solving quadratics lessons Oak academy - Solve quadratics where a > 1 Solving quadratics by factorising VIDEO Solving quadratics by factorising WORKSHEET	
28 - 02 Sep - Oct	6 11.4 Explore enlargement	Use Corbett maths to revise enlargement: Describing enlargements VIDEO Enlargement by a negative SF VIDEO Enlargement by a negative SF WORKSHEET Enlargement by a negative SF ANSWERS Oak Academy - Enlargement and Similarity lessons	Can you answer the following questions? <ul style="list-style-type: none"> • How would you enlarge a shape by scale factor 1.5? • What happens to a shape when you enlarge it by a negative scale factor? • What 3 pieces of information do you need to give if you are describing an enlargement?
05 - 09 Oct - Oct	7 11.5 Functions	Oak Academy - Functions lessons Functions VIDEO Composite functions VIDEO Functions WORKSHEET	How well do you understand function notation? <ol style="list-style-type: none"> 1. What does $f(5)$ mean? 2. What does 'solve $f(x) = 10$' mean?

			3. What does $fg(x)$ mean? Make a revision card to remind you of the key notation.
12 - 16 Oct - Oct	8	11.6 Proportionality - direct & inverse	Oak Academy - Direct and Inverse Proportion lessons Direct proportion VIDEO Inverse proportion VIDEO Direct and Inverse proportion WORKSHEET Direct and inverse proportion ANSWERS
19 - 23 Oct - Oct		Half Term	
26 - 30 Oct - Oct	9	11.7 Geometric progressions	Geometric progressions VIDEO Oak Academy - nth term of a geometric progression
02 - 06 Nov - Nov	10	11.8.1 Solve inequalities - all methods	Oak Academy - Solving inequalities lessons
09 - 13 Nov - Nov	11	11.9.1 Exponential & Trig graphs	Exponential graphs VIDEO https://www.onmaths.com/mock_exams/exponential-graphs/ Oak academy - Other Graphs lessons
16 - 20 Nov - Nov	12	11.10 Histograms	Oak Academy - Histograms lessons Interpreting histograms VIDEO Interpreting histograms WORKSHEET Interpreting histograms ANSWERS Histograms EXAM QUESTIONS
23 - 27 Nov - Nov	13	REVISION & MOCKS	Use www.onmaths.com to have a go at mini mocks or topic tests for revision.
30 - 04 Nov - Dec	14	REVISION & MOCKS	
07 - 11 Dec - Dec	15	11.11 Features of quadratic graphs	Oak academy - Quadratic graphs a = 1 lessons Oak Academy - Quadratic graphs 2 a>1 Drawing quadratic graphs VIDEO Sketching quadratics from key features VIDEO Quadratic graphs WORKSHEET Quadratic graphs ANSWERS
14 - 18 Dec - Dec	16	11.12 Vectors	Oak Academy - Higher vectors lessons Vectors VIDEO https://www.onmaths.com/mock_exams/vectors/
21 - 25 Dec - Dec		Christmas	
28 - 01 Dec - Jan		Christmas	
04 - 08 Jan - Jan	17	11.13 Geometric proof	Oak Academy - Algebraic proof lessons Geometric proof VIDEO https://www.onmaths.com/mock_exams/algebraic-proof/
11 - 15 Jan - Jan	18	11.1.2 Sine & cosine rule	Oak Academy - Advanced Trig - Sine and Cosine rule lessons Go to www.corbettmaths.com and click on 'worksheets'. Work through the videos and worksheets on the sine rule and cosine rule.

			<p>Trigonometry: sine rule (sides) Video 333 Practice Q</p> <p>Trigonometry: sine rule (angles) Video 334 Practice C Exercise</p> <p>Trigonometry: sine rule (ambiguous case) Video 334a</p> <p>Trigonometry: cosine rule (sides) Video 335 Practice Q Exercise</p> <p>Trigonometry: cosine rule (angles) Video 336 Practice Exercise</p>	
18 - 22 Jan - Jan	19	11.3.2 Use iteration to solve equations	Iteration VIDEO Iteration EXAM QUESTIONS	
25 - 29 Jan - Jan	20	11.8.2 Solve sim eqns - all methods	<p>Use corbettmaths.com to work through videos, worksheets/ past exam questions on the different ways to solve simultaneous equations.</p> <p>Simultaneous equations (elimination) Video 295 Pra Exercise</p> <p>Simultaneous equations (substitution, both linear) V</p> <p>Simultaneous equations (graphical) Video 297 Tex</p> <p>Simultaneous equations (advanced) Video 298 Prac Exercise</p>	
01 - 05 Feb - Feb	21	11.9.2 Transforming graphs	Transforming graphs VIDEO Transforming graphs EXAM QUESTIONS	
08 - 12 Feb - Feb	22	11.1.3 Area of a triangle using $\frac{1}{2}ab\sin C$	Trig area VIDEO Proof - Trig area VIDEO Trig - of a triangle WORKSHEET Trig - area ANSWERS	
15 - 19 Feb - Feb		Half term		
22 - 26 Feb - Feb	23	Further Maths:		<ul style="list-style-type: none"> ● Use 'Ready Set Go' booklets and work through areas you are less confident with ● Use PiXL mathsapp - complete the set tasks each week to be in with a chance of winning an Amazon voucher. Also work through any 'red' topics on your PLC's. ● Go to onmaths.com and practice some online papers to improve your exam technique.
01 - 05 Mar - Mar	24	Further Maths:		
08 - 12 Mar - Mar	25	Further Maths		
15 - 19 Mar - Mar	26	REVISION:		
22 - 26 Mar - Mar	27	REVISION:		
29 - 02 Mar - Apr		Easter		
05 - 09 Apr - Apr		Easter		
12 - 16 Apr - Apr	28	REVISION: Number focus		<ul style="list-style-type: none"> ● Use 'Ready Set Go' booklets and work through areas you are less confident with ● Use PiXL mathsapp - complete the set tasks each week to be in
19 - 23 Apr - Apr	29	REVISION: Ratio & proportion focus		
26 - 30 Apr - Apr	30	REVISION: Algebra focus		

03 May	07 May	31	REVISION: Geometry focus		<p>with a chance of winning an Amazon voucher. Also work through any 'red' topics on your PLC's.</p> <ul style="list-style-type: none"> ● Go to onmaths.com and practice some online papers to improve your exam technique. ● Work through past paper booklets. Email your teacher for mark schemes so that you can check your work.
10 May	14 May	32	REVISION: Statistics focus		
17 May	21 May	33	FINAL ASSESSMENTS		
24 May	28 May	34	FINAL ASSESSMENTS		
31 May	04 Jun		Half Term		