Year 11 FOUNDATION 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	Online lessons and worksheets	Additional activities
24 Aug - 28 Aug	1	Phased return		
31 Aug - 04 Sep	2	10.2.1 Powers & roots	Laws of Indices VIDEO Laws of Indices WORKSHEET Laws of Indices ANSWERS	Create a revision card or poster to remind you of the main laws of indices.
07 Sep - 11 Sep	3	10.1.1 Similar triangles	Similar shapes VIDEO Similar shapes WORKSHEET Similar shapes ANSWERS	● What does it mean if two shapes are similar? ● What happens to the angles inside a shape when it is enlarged? ● How do you multiply by a decimal scale factor, e.g. 2.5?
14 Sep - 18 Sep	4	TEST & REMEDIAL WORK	Oak Academy - FDP revision lessons	
21 Sep - 25 Sep	5	10.12.2 Repeated % change	Oak Academy - Percentage change lessons Oak Academy - Repeated Percentage change lessons	● What is the difference between simple and compound interest? ● How do you find 1% of a number? ● What does depreciate mean? ● What does 'per annum' mean? Make a revision card of these key points.
28 Sep - 02 Oct	6	10.8.1 Solve inequalities	Oak Academy - revise solving equations Oak Academy - solving and representing inequalities lessons	Design a poster explaining how to solve $5x + 3 > 11$
05 Oct - 09 Oct	7	10.9.1 Calculate Surface area	Oak Academy - surface area of cubes and cuboids lesson Oak Academy - surface area of triangular prisms lesson	Choose a 3D object in your home and work out it's surface area
12 Oct - 16 Oct	8	10.5.1 & 5.2 Exploring quadratic factorisation	Oak Academy - factorising single brackets lessons Oak Academy - factorising quadratics lessons	Copy and complete the following sentence: To factorise an expression...
19 Oct - 23 Oct		Half Term		
26 Oct - 30 Oct	9	10.2.2 Surds	Oak Academy - simplifying surds lesson Simplifying Surds VIDEO Simplifying Surds WORKSHEET	
02 Nov - 06 Nov	10	10.14 Understanding risk	Oak Academy - Probability scale lessons	Quick quiz:

			Oak Academy - sample spaces and venn diagrams lessons Oak Academy - tree diagrams lessons	1. What does 0 represent on the probability scale? 2. What is the probability of rolling a prime number on a normal dice? 3. How many outcomes are there if you roll a dice and flip a coin? 4. What does hte middle section on a Venn diagram represent? 5. How do you calculate probabilities from a tree diagram?
09 Nov - 13 Nov	11	10.4.1 & 10.4.2 Transformations & Enlargement	Oak Academy - rotation and enlargement lessons Oak Academy - translation and vectors lessons Oak Academy - reflection lessons	Make a revision poster to remind you of the 4 transformations and how to do them.
16 Nov - 20 Nov	12	10.15.1 Sampling techniques	Random Sampling VIDEO Random Sampling EXAM QUESTIONS	
23 Nov - 27 Nov	13	REVISION & MOCKS	Use onmaths.com to have a go at some Foundation mini mock papers: mini mock exams	
30 Nov - 04 Dec	14	REVISION & MOCKS	Use onmaths.com to have a go at some Foundation mini mock papers: mini mock exams	
07 Dec - 11 Dec	15	10.9.2 Calculate volume	Oak Academy - volume of cubes and cuboids lesson Oak academy - Volume of prisms lesson	Find 5 3D objects at home predict which will have the smallest and largest volumes. Now calculate the volume of each object. Were you right?
14 Dec - 18 Dec	16	10.7 Pattern sniffing	Oak Academy - Linear sequences lessons	Explain to a parent, carer or sibling how you would find (a) the next term (b) the nth term (c) whether 101 is a term for the following sequence: 2, 7, 12, 17, 22
21 Dec - 25 Dec		Christmas		
28 Dec - 01 Jan		Christmas		
04 Jan - 08 Jan	17	10.1.2 Trigonometry	Introduction to Trigonometry VIDEO Trig - missing sides VIDEO Trig - missing angles VIDEO Trigonometry WORKSHEET – make sure you have watched all 3 videos and made notes first! Trigonometry EXAM PAPER	Do you know how to spot a trigonometry question on your exam paper? Do you understand how to score the first mark on a trigonometry question? Make up a rhyme to help you remember SOHCAHTOA.
11 Jan - 15 Jan	18	10.6 Proportional reasoning	Proportion VIDEO Proportion WORKSHEET Recipe problems VIDEO Recipe problems WORKSHEET	Find a recipe on the internet or in a recipe book and adapt the ingredients so that it can be used for 30 people. What maths did you use?
18 Jan - 22 Jan	19	10.2.3 Bounds	Oak Academy - rounding & Estimation lessons	

			Highest and lowest values VIDEO Highest and lowest values WORKSHEET Error Intervals VIDEO Error Intervals WORKSHEET	
25 Jan - 29 Jan	20	10.16.1 SLG	Oak Academy - straight line graphs lessons Drawing graphs from tables VIDEO Drawing graphs from equations VIDEO Drawing graphs from tables WORKSHEET – watch the two videos above first Gradient of a line VIDEO Equation of a line VIDEO Equation of a line WORKSHEET	
01 Feb - 05 Feb	21	10.3.2 Sim Eqns NOT INCL GRAPHICALLY	Simultaneous equations VIDEO Sim Eqns WORKSHEET Sim Eqns EXAM QUESTIONS	
08 Feb - 12 Feb	22	10.11.1 Explore kinematic graphs	Oak Academy - Travel graph lessons Speed, distance, time VIDEO Speed, distance, time WORKSHEET Distance-Time graphs VIDEO Distance-Time graphs WORKSHEET	
15 Feb - 19 Feb		Half term		
22 Feb - 26 Feb	23	10.11.2 Explore features of quadratic graphs	Drawing quadratics VIDEO Drawing quadratics WORKSHEET Key features of a quadratic VIDEO Key features of a quadratic WORKSHEET	● 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 Mar - 05 Mar	24	10.3.1 Iteration	Iteration VIDEO Iteration EXAM QUESTIONS	
08 Mar - 12 Mar	25	10.17.1 Vector arithmetic	Column vectors VIDEO Column Vectors WORKSHEET	
15 Mar - 19 Mar	26	10.5.3 Algebraic fractions - simplifying ONLY		
22 Mar - 26 Mar	27	Flexi		
29 Mar - 02 Apr		Easter		
05 Apr - 09 Apr		Easter		
12 Apr - 16 Apr	28	REVISION: Number focus		● 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.
'[- 23 Apr	29	REVISION: Ratio & proportion focus		
26 Apr - 30 Apr	30	REVISION: Algebra focus		
03 May - 07 May	31	REVISION: Geometry focus		
10 May - 14 May	32	REVISION: Statistics focus		
17 May - 21 May	33	FINAL ASSESSMENTS		
24 May - 28 May	34	FINAL ASSESSMENTS		

				● Work through past paper booklets. Email your teacher for mark schemes so that you can check your work.
31 May - 04 Jun		Half Term		