

Instructions

To continue your maths learning, whilst you are isolating, we have put together a set of lesson which cover all the work being done in class in November and December. The lessons are all from the Oak National Academy's website and include: an introductory quiz; a video to watch explaining the topic; a practice task or tasks; and a quiz at the end to check your understanding. Just check for a message from your teacher telling you which lesson you are scheduled to do and click the links to be taken directly to them.

Area	Topic	Content	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Shape	Time	Converting timescales, time calculations, read timetables, 24 hour clock	Convert between hours, minutes, seconds	Converting between 12 and 24 hour clocks	Solving word problems with time	Timetables and Distance Tables	
	Perimeter and area	Area of rectilinear shapes	Area of rectangles, triangles & parallelograms	Area of trapeziums	Area of compound shapes	Perimeter	
	Volume	Nets, leading to volume and surface area of cuboids	3D Shapes	Nets of cubes	Counting cubes	Volume of cubes and cuboids	Surface area of cubes and cuboids
	Units	Converting squared (area) and cubic (volume) units.	Converting between metric units of length	Calculation and conversion of units of area			
Algebra	Simplifying	Collecting like terms	Simplifying Expressions with Like Term Simplify expressions by multiplying Expand a term over a single bracket Expanding single brackets with powers				
	Simplifying	Simplifying through multiplication					
Number	Factors and multiples	Be able to find Factors, Multiples, HCF and LCM using lists.	Multiples & factor pairs	Simple HCF and LCM			
	Types of number	Prime factor decomposition	Identifying prime numbers	Prime factor decomposition	Finding the LCM with Venn diagrams	Finding the HCF with Venn diagrams	
	Index numbers	Index number laws	Multiplying powers	Dividing powers	Powers of powers	Manipulating powers	
	Standard form	Writing numbers in standard form	Convert large numbers to standard form	Convert standard form to ordinary large numbers	Convert small numbers to standard form	Convert standard form to ordinary small numbers	
Shape	Basic angle facts	Triangle, quadrilateral, SL and full turn	Full turns & straight lines Missing angles in triangles Missing angles in quadrilaterals Angles in special quadrilaterals				
	Angle reasoning	Solve problems involving 2+ facts with explanation					
Algebra	Brackets	Expand and factorise linear expressions	Expand over a single bracket	Expand single brackets including powers	Factorising single brackets I	Factorising single brackets II	Factorising single brackets III
	Substitution	Substitute into a formula, thinking about BIDMAS order	Substitution - Positive numbers	Substitution - Negative numbers			