

MATHS REMOTE WORKING 2020-21: TERM 2

If you are absent from school, for example because you are self-isolating, you should aim to complete the tasks below in each week in addition to the home learning activities posted on Class Charts.

YEAR 7

Week Commencing	Activities
02/11/20	Place value Standard form Large Numbers https://app.mymaths.co.uk/166-lesson/standard-form-large https://classroom.thenational.academy/lessons/sorting-large-numbers-6nk3gc Standard form Small Numbers https://app.mymaths.co.uk/167-lesson/standard-form-small
09/11/20	Place value – calculating with standard form https://app.mymaths.co.uk/168-lesson/standard-form-calcs Multiplying and dividing standard form https://classroom.thenational.academy/lessons/multiplying-and-dividing-in-standard-form-6wv3jc Adding and Subtracting standard form https://classroom.thenational.academy/lessons/addition-and-subtraction-in-standard-form-61j34c Mixed problems standard form https://classroom.thenational.academy/lessons/mixed-problems-with-standard-form-crw3cd Challenge https://nrich.maths.org/14530 :
16/11/20	Directed number Ordering, calculations across zero https://corbettmaths.com/2013/06/06/ordering-numbers-including-negatives/ https://app.mymaths.co.uk/47-lesson/negative-numbers-1 Adding and subtracting https://corbettmaths.com/2013/06/08/negatives-addition-and-subtraction-2/ https://app.mymaths.co.uk/47-lesson/negative-numbers-2 Challenge: https://nrich.maths.org/5868
23/11/20	Directed number Multiplying and dividing/investigations https://corbettmaths.com/2012/08/20/multiplying-negative-numbers/ https://corbettmaths.com/2012/08/20/dividing-involving-negatives/ https://classroom.thenational.academy/lessons/further-multiplication-ccukac Challenge: https://nrich.maths.org/5872
30/11/20	Order of Operations BODMAS

	https://app.mymaths.co.uk/203-lesson/order-of-operations Squares and Cubes https://app.mymaths.co.uk/150-lesson/squares-and-cubes Complete exercise 2 and 3: https://corbettmaths.com/wp-content/uploads/2018/11/Order-of-Operations-Exercise-211-pdf.pdf Challenge: https://nrich.maths.org/1013
7/12/20	Number theory Multiples https://app.mymaths.co.uk/45-lesson/multiples Factors https://app.mymaths.co.uk/46-lesson/factors-and-primes Divisibility tests – complete quiz questions at bottom as well! https://www.mathsisfun.com/divisibility-rules.html Challenge: https://nrich.maths.org/6651
14/12/20	Number theory Prime numbers https://corbettmaths.com/2013/03/24/prime-numbers/ https://corbettmaths.com/wp-content/uploads/2018/09/Prime-Numbers-pdf.pdf Square numbers https://corbettmaths.com/2012/08/11/1336/ Complete page 2 - https://corbettmaths.com/wp-content/uploads/2018/09/Squaring-Numbers-pdf.pdf Triangle numbers https://corbettmaths.com/2013/03/31/triangular-numbers/ https://corbettmaths.com/wp-content/uploads/2018/09/Triangular-Numbers-pdf.pdf LCM https://app.mymaths.co.uk/152-lesson/lowest-common-multiple Challenge: https://nrich.maths.org/6414

YEAR 8

Week Commencing	Activities
2/11/20	Direct proportion graphs and conversion graphs MYMATHS Lesson: https://app.mymaths.co.uk/161-lesson/proportion-introduction Task: https://app.mymaths.co.uk/1789-homework/direct-proportion OAK ACADEMY https://teachers.thenational.academy/lessons/direct-proportion-part-1-c8rk6c?from_query=direct+proportion https://teachers.thenational.academy/lessons/direct-proportion-part-2-61jkac https://teachers.thenational.academy/lessons/direct-proportion-part-3-75gkjd

	<p>https://teachers.thenational.academy/lessons/using-direct-proportion-graphs-6cv3ed?from_query=proportion</p> <p>Extension: NRICH https://nrich.maths.org/530 https://nrich.maths.org/4793</p>
9/11/20	<p>Proportion and similar shapes MYMATHS Lesson: https://app.mymaths.co.uk/306-lesson/similar-triangles Task: https://app.mymaths.co.uk/306-homework/similar-triangles</p> <p>OAK ACADEMY https://teachers.thenational.academy/lessons/proportion-in-context-c8w3ir?from_query=proportion https://teachers.thenational.academy/lessons/proportion-problems-cdj3ed?from_query=proportion https://teachers.thenational.academy/lessons/identify-similar-shapes-and-show-shapes-are-similar-6rtkgt?from_query=similar+ https://teachers.thenational.academy/lessons/find-missing-lengths-in-similar-separate-shapes-6wvk8c?from_query=similar+</p> <p>NRICH https://nrich.maths.org/5639 https://nrich.maths.org/6923</p>
16/11/20	<p>Interpreting scale diagrams and maps MYMATHS Lesson: https://app.mymaths.co.uk/304-lesson/map-scales Task: https://app.mymaths.co.uk/304-homework/map-scales</p> <p>OAK ACADEMY https://teachers.thenational.academy/lessons/enlarge-an-object-with-a-positive-scale-factor-c4v3gc?from_query=scale+diagrams https://teachers.thenational.academy/lessons/reading-distances-on-a-map-6ngp6e?from_query=scale+maps</p> <p>Extension – choose an appropriate scale factor and create a to scale floor plan of your room.</p>
23/11/20	<p>Understand and use ratio notation (simplifying, dividing a quantity into a given ratio) MYMATHS Lessons: https://app.mymaths.co.uk/158-lesson/ratio-introduction https://app.mymaths.co.uk/159-lesson/ratio-dividing-1</p>

	<p>Tasks: https://app.mymaths.co.uk/158-homework/ratio-introduction https://app.mymaths.co.uk/159-homework/ratio-dividing-1</p> <p>OAK ACADEMY https://teachers.thenational.academy/lessons/groups-c8wk2t?from_query=ratio+notation https://teachers.thenational.academy/lessons/ratio-and-fractions-6xjkce?from_query=ratio+notation https://teachers.thenational.academy/lessons/ratio-problems-c5hk4r?from_query=ratio+notation</p> <p>NRICH https://nrich.maths.org/8422 https://nrich.maths.org/6870</p>
30/11/20	<p>Coordinates in four quadrants and mid-points MYMATHS Lessons: https://app.mymaths.co.uk/181-lesson/coordinates-1-positive https://app.mymaths.co.uk/182-lesson/coordinates-2-negative https://app.mymaths.co.uk/1764-lesson/midpoint-and-line-length-1</p> <p>Tasks: https://app.mymaths.co.uk/181-homework/coordinates-1-positive https://app.mymaths.co.uk/182-homework/coordinates-2-negative https://app.mymaths.co.uk/1764-homework/midpoint-and-line-length-1</p> <p>OAK ACADEMY https://teachers.thenational.academy/lessons/the-2-d-coordinate-axis-6hgp6d https://teachers.thenational.academy/lessons/line-segments-75h38r https://teachers.thenational.academy/lessons/finding-midpoints-71k38d</p> <p>NRICH https://nrich.maths.org/6280</p>
7/12/20	<p>Equations of horizontal and vertical lines and gradients</p> <p>OAK ACADEMY https://teachers.thenational.academy/lessons/exploring-horizontal-and-vertical-lines-70tpae?from_query=coordinates https://teachers.thenational.academy/lessons/gradient-1-60rp4r?from_query=gradients https://teachers.thenational.academy/lessons/gradient-part-2-cru62r</p> <p>NRICH</p>

	https://nrich.maths.org/6603 https://nrich.maths.org/5609 https://nrich.maths.org/5610
14/12/20	<p>$y=mx+c$</p> <p>MYMATHS Lessons: https://app.mymaths.co.uk/1766-lesson/plotting-graphs-2-lines https://app.mymaths.co.uk/220-lesson/y-mx-c</p> <p>Tasks: https://app.mymaths.co.uk/1766-homework/plotting-graphs-2-lines https://app.mymaths.co.uk/220-homework/y-mx-c</p> <p>OAK ACADEMY https://teachers.thenational.academy/lessons/y-mx-c-61jk0r https://teachers.thenational.academy/lessons/equations-of-lines-6xhkad</p> <p>NRICH https://nrich.maths.org/5725 https://nrich.maths.org/763 (use https://www.desmos.com/calculator)</p>

YEAR 9

Week Commencing	Activities
2/11/20	<p>Inequalities – illustrating on a number line and solving linear inequalities with algebra. https://app.mymaths.co.uk/232-lesson/inequations https://corbettmaths.com/wp-content/uploads/2020/10/Inequalities-textbook.pdf</p>
9/11/20	<p>Area and circumference of a circle. https://app.mymaths.co.uk/269-lesson/circumference-of-a-circle https://app.mymaths.co.uk/270-lesson/area-of-a-circle https://corbettmaths.com/wp-content/uploads/2013/02/circumference-pdf2.pdf https://corbettmaths.com/wp-content/uploads/2017/12/area-of-a-circle.pdf</p>
16/11/20	<p>Surface area and volume of a cylinder https://app.mymaths.co.uk/334-lesson/nets-surface-area https://corbettmaths.com/wp-content/uploads/2013/02/surface-area-of-a-cylinder-pdf1.pdf https://app.mymaths.co.uk/337-lesson/volume-of-cylinders https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cylinder-pdf1.pdf</p>
23/11/20	<p>Units and measure https://app.mymaths.co.uk/296-lesson/speed https://corbettmaths.com/wp-content/uploads/2018/09/Speed-Distance-Time-pdf.pdf</p>

	https://app.mymaths.co.uk/3276-lesson/converting-compound-measures https://corbettmaths.com/wp-content/uploads/2013/02/density-pdf2.pdf
30/11/20	Real life graphs https://app.mymaths.co.uk/216-lesson/real-life-graphs https://app.mymaths.co.uk/217-lesson/distance-time-graph https://corbettmaths.com/wp-content/uploads/2013/02/distance-time-graphs-pdf.pdf
7/12/20	Transformations https://app.mymaths.co.uk/315-lesson/rotating-shapes https://corbettmaths.com/wp-content/uploads/2013/02/rotations.pdf https://app.mymaths.co.uk/316-lesson/reflecting-shapes https://corbettmaths.com/wp-content/uploads/2013/02/reflections-pdf1.pdf https://app.mymaths.co.uk/317-lesson/translating-shapes https://corbettmaths.com/wp-content/uploads/2013/02/translations-pdf1.pdf
14/12/20	Transformations https://app.mymaths.co.uk/314-lesson/enlarging-shapes https://corbettmaths.com/wp-content/uploads/2019/01/Enlargements-pdf.pdf https://app.mymaths.co.uk/318-lesson/all-transformations