

MATHEMATICS REMOTE WORKING 2020-21: TERM 5

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
20/4/21	<p>Topic: Angles and Polygons</p> <ul style="list-style-type: none">- Title: Recognise and draw different types of angles <p>Watch these videos: https://app.mymaths.co.uk/256-lesson/angle-sums https://corbettmaths.com/2013/03/16/estimating-angles/</p> <p>Then complete this worksheet: https://corbettmaths.com/wp-content/uploads/2013/02/angles-pdf.pdf</p> <ul style="list-style-type: none">- Title: Find angles on a line, around a point and vertically opposite angles <p>Watch these three short videos about finding angles: https://corbettmaths.com/2013/12/19/angles-straight-line-video-35/ https://corbettmaths.com/2012/08/10/angles-in-a-full-circle/ https://corbettmaths.com/2013/03/16/vertically-opposite-angles/</p> <p>Then complete questions 4 and 5 from the worksheet: https://corbettmaths.com/wp-content/uploads/2013/02/angle-facts-pdf1.pdf</p> <ul style="list-style-type: none">- Find angles in a triangle <p>Complete these MyMaths lessons https://app.mymaths.co.uk/256-lesson/angle-sums https://app.mymaths.co.uk/257-lesson/angle-reasoning</p>
26/4/21	<p>Topic: Angles and Polygons</p> <ul style="list-style-type: none">- Find angles in a quadrilateral <p>Watch this video: https://corbettmaths.com/2013/03/17/angles-in-quadrilaterals/</p> <p>Complete questions 1 and at least one other questions from this worksheet: https://corbettmaths.com/wp-content/uploads/2013/02/angles-in-a-quadrilateral-pdf2.pdf</p> <ul style="list-style-type: none">- Types of quadrilaterals <p>Complete these Oak Academy lessons: https://classroom.thenational.academy/lessons/comparing-quadrilaterals-cmt66t https://classroom.thenational.academy/lessons/internal-angles-in-a-quadrilateral-cguk8t</p> <ul style="list-style-type: none">- Find interior and exterior angles in a polygon <p>Watch the following video about angles in polygons: https://corbettmaths.com/2012/08/10/angles-in-polygons/</p> <p>Then complete the following two lessons from Oak Academy: https://teachers.thenational.academy/lessons/finding-missing-angles-in-polygons-6wvp8r https://classroom.thenational.academy/lessons/exterior-angles-c9jkce</p>
3/5/21	<p>Topic: Angles and Polygons</p> <ul style="list-style-type: none">- Alternate angles and angles in parallel lines- Solving geometric problems with angles <p>Watch this video https://corbettmaths.com/2013/04/04/parallel-lines-angles/</p> <p>Then complete this worksheet;</p>

	https://corbettmaths.com/wp-content/uploads/2013/02/angles-parallel-lines-pdf.pdf
10/5/21	<p>Topic: Fractions</p> <ul style="list-style-type: none"> - Introducing fractions and different interpretations <p>Complete these two lessons on understanding fraction:</p> <p>https://classroom.thenational.academy/lessons/equal-parts-of-a-whole-6gv38c https://classroom.thenational.academy/lessons/fractions-and-units-of-measure-6nh36t</p> <ul style="list-style-type: none"> - Similar and equivalent fractions - Mixed number and improper fractions <p>Complete these three lessons:</p> <p>https://teachers.thenational.academy/lessons/equivalent-fractions-ccu6ae https://classroom.thenational.academy/lessons/comparing-fractions-part-1-6nk3gr https://classroom.thenational.academy/lessons/comparing-fractions-part-2-ccr6ce</p>
17/5/21	<p>Topic: Fractions</p> <ul style="list-style-type: none"> - Adding and subtracting fractions <p>Complete these two lessons:</p> <p>https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-1-75h66d https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-2-6wu30c</p> <p>Complete this lesson if you would like some more practice:</p> <p>https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-3-70r6cd</p> <ul style="list-style-type: none"> - Multiplying and dividing fractions <p>Multiplying:</p> <p>https://teachers.thenational.academy/lessons/using-area-models-to-multiply-fractions-6rt3ec</p> <p>Dividing:</p> <p>https://classroom.thenational.academy/lessons/modelling-fractions-by-division-part-1-70vp8r https://classroom.thenational.academy/lessons/modelling-fractions-by-division-part-2-61gk2e</p>
24/5/21	<p>Topic: Fractions</p> <ul style="list-style-type: none"> - More practice of the above <p>Watch these videos as a refresher on multiplying and dividing:</p> <p>https://corbettmaths.com/2012/08/21/multiplying-fractions-2/ https://corbettmaths.com/2012/08/21/division-with-fractions/</p> <p>Then complete these questions:</p> <p>https://corbettmaths.com/wp-content/uploads/2013/02/multiplying-dividing-fractions-pdf.pdf</p> <ul style="list-style-type: none"> - Problem solving with fractions <p>https://classroom.thenational.academy/lessons/fractions-and-distributivity-6rw3jc</p>

Week Commencing	Activities
20/4/21	<p>Units and Measure</p> <p>Converting units of length:</p> <ol style="list-style-type: none"> 1) https://classroom.thenational.academy/lessons/converting-between-units-of-length-cgr32e 2) https://classroom.thenational.academy/lessons/converting-between-metric-units-of-length-6cu3cc 3) https://classroom.thenational.academy/lessons/solving-problems-involving-converting-between-metric-units-of-length-cmwk6c <p>Converting units of mass</p> <ol style="list-style-type: none"> 1) https://classroom.thenational.academy/lessons/converting-between-units-of-metric-mass-6ww38d 2) https://classroom.thenational.academy/lessons/solving-problems-involving-converting-between-units-of-metric-mass-69h66e <p>Metric and imperial conversions</p> <ol style="list-style-type: none"> 1) https://classroom.thenational.academy/lessons/converting-between-miles-and-km-c4rk4t 2) https://classroom.thenational.academy/lessons/solving-problems-involving-converting-between-miles-and-km-ctgket 3) https://classroom.thenational.academy/lessons/understanding-pounds-and-converting-kilograms-to-pounds-74u3ge 4) https://classroom.thenational.academy/lessons/solving-problems-involving-the-conversion-between-lb-and-kg-crv32r <p>Extension: https://classroom.thenational.academy/lessons/solving-problems-involving-various-units-of-measure-68v3ae</p>
26/4/21	<p>Topic: Units and Measure</p> <p>Title: Converting units of area</p> <ol style="list-style-type: none"> 1) Watch the video and copy down 2 examples: https://youtu.be/nv26rlqbc4g 2) Try some questions from this worksheet: https://corbettmaths.com/wp-content/uploads/2019/07/Converting-Areas-pdf.pdf <p>Title: Converting units of volume</p> <ol style="list-style-type: none"> 1) Watch this video and copy down 2 examples: https://youtu.be/7xAGhk1ePk 2) Try some questions from this worksheet: https://corbettmaths.com/wp-content/uploads/2019/07/Converting-Volumes.pdf <p>Title: Speed distance time</p> <ol style="list-style-type: none"> 1) https://classroom.thenational.academy/lessons/speed-as-rate-distance-time-graphs-6nhk2r 2) https://classroom.thenational.academy/lessons/calculating-speed-distance-and-time-6mrkie 3) https://corbettmaths.com/2016/01/01/speed-distance-time/ <p>Extension: Problem solving with compound measures https://corbettmaths.com/wp-content/uploads/2018/09/Speed-Distance-Time-pdf.pdf try some of the 'Apply' questions on page 5-6.</p>
3/5/21	<p>Topic: Real Life Graphs</p> <p>Title: Conversion graphs</p> <ol style="list-style-type: none"> 1) https://app.mymaths.co.uk/214-lesson/conversion-graphs 2) https://classroom.thenational.academy/lessons/exchange-rates-with-graphs-6cv36d <p>Title: Distance Time graphs</p> <ol style="list-style-type: none"> 1) Watch the video: https://youtu.be/oxOiuqUfWKA 2) Try some questions from this worksheet: https://corbettmaths.com/wp-content/uploads/2013/02/distance-time-graphs-pdf.pdf <p>Title: Speed Time graphs</p> <ol style="list-style-type: none"> 1) https://app.mymaths.co.uk/216-lesson/real-life-graphs
10/5/21	<p>Topic: Percentages</p> <p>Title: Introduction to percentages</p> <ol style="list-style-type: none"> 1) https://classroom.thenational.academy/lessons/percentages-on-a-number-line-cru6at

	<p>Title: Converting between fractions, decimals and percentages</p> <p>1) https://classroom.thenational.academy/lessons/converting-to-decimals-cmvp8d</p> <p>2) https://classroom.thenational.academy/lessons/converting-from-fractions-to-percentages-c4v3jd</p> <p>Title: Calculating percentage of an amount</p> <p>1) https://classroom.thenational.academy/lessons/percentages-of-amount-6nj68r</p> <p>2) https://classroom.thenational.academy/lessons/percentages-of-amount-part-2-c9j66c</p>
17/5/21	<p>Topic: Percentages</p> <p>Title: Decimal multipliers</p> <p>1) https://classroom.thenational.academy/lessons/decimal-multipliers-64w3et</p> <p>Title: Increase and decrease by a percentage</p> <p>1) https://classroom.thenational.academy/lessons/increase-by-a-percentage-69h68c</p> <p>2) https://classroom.thenational.academy/lessons/decrease-by-a-percentage-70ukid</p> <p>Title: Percentage change</p> <p>1) https://classroom.thenational.academy/lessons/calculate-percentage-change-60vkjd</p> <p>Extension: Problem solving</p> <p>1) Watch the video and copy down an example: https://youtu.be/ag7pYqeFRig</p> <p>2) Try some questions: https://corbettmaths.com/wp-content/uploads/2019/10/Reverse-Percentages.pdf</p>
24/5/21	<p>Topic: Setting up and solving algebraic equations</p> <p>Title: Building expressions, function machines</p> <p>1) https://app.mymaths.co.uk/201-lesson/function-machines</p> <p>2) Watch the video: https://corbettmaths.com/2013/03/12/forming-algebraic-notation/</p> <p>3) Try some questions from the worksheet: https://corbettmaths.com/wp-content/uploads/2013/02/forming-expressions-pdf2.pdf</p> <p>4) https://classroom.thenational.academy/lessons/algebraic-expressions-71gp2t</p> <p>Title: Solving 1 step equations</p> <p>1) https://classroom.thenational.academy/lessons/solving-one-step-equations-chk32d?from_query=solving+one+AND+is_sensitive%3Afalse</p>

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Week Commencing	Activities
20/4/21	<p>Topic: Trigonometry</p> <p>- Title: Finding missing sides</p> <p>Watch these videos</p> <p>https://corbettmaths.com/2013/03/30/trigonometry-introduction/</p> <p>https://corbettmaths.com/2013/03/30/trigonometry-missing-sides/</p> <p>Then, complete this MyMaths lesson:</p> <p>https://app.mymaths.co.uk/322-lesson/trig-missing-sides</p> <p>- Title: Finding missing angles</p> <p>Watch this video:</p> <p>https://corbettmaths.com/2013/03/30/trigonometry-missing-angles/</p> <p>Then, complete this MyMaths lesson:</p> <p>https://app.mymaths.co.uk/321-lesson/trig-missing-angles</p>
26/4/21	<p>Topic: Trigonometry</p>

	<ul style="list-style-type: none"> - Title: Finding missing angles Complete Question 1 from the sheet: https://corbettmaths.com/wp-content/uploads/2020/05/Trigonometry-Exercise-329-330-331.pdf If you would like more practice, then have a go at the 'Apply' section Topic: Direct and Inverse Proportion - Title: Direct Proportion and ratio problem solving https://classroom.thenational.academy/lessons/looking-at-proportional-relationships-6wr34r
3/5/21	<p>Topic: Direct and Inverse Proportion</p> <ul style="list-style-type: none"> - Definition of direct proportion and different representations <ul style="list-style-type: none"> o Graphical, ratio, tabular, algebraic notation o Solving simple problems o Top sets: setting up direct proportion equations <p>Complete these 3 lessons on Direct Proportion Lesson 1: https://classroom.thenational.academy/lessons/direct-proportion-part-1-c8rk6c Lesson 2: https://classroom.thenational.academy/lessons/direct-proportion-part-2-61jkac Lesson 3: https://classroom.thenational.academy/lessons/direct-proportion-part-3-75gkjd</p>
10/5/21	<p>Direct and Inverse Proportion</p> <ul style="list-style-type: none"> - Inverse proportion - https://classroom.thenational.academy/lessons/inverse-proportion-74u38t - https://classroom.thenational.academy/lessons/inverse-proportion-in-context-60w6ac - https://classroom.thenational.academy/lessons/graphs-of-inverse-proportion-problems-cmrkqc - Problem solving
17/5/21	<p>Topic: Quadratics in algebra Title: Expanding single brackets (recap) 1) https://classroom.thenational.academy/lessons/expand-a-term-over-a-single-bracket-c8v62c 2) https://classroom.thenational.academy/lessons/expand-2-brackets-and-simplify-expressions-part-1-crvk4c</p> <p>Title: Expanding double brackets 1) https://classroom.thenational.academy/lessons/expand-and-simplify-double-brackets-cdhkic 2) https://classroom.thenational.academy/lessons/expand-and-simplify-double-brackets-coefficient-of-greater-than-1-c8wp4e</p>
24/5/21	<p>Topic: Quadratics in algebra Optional: Factorising single brackets (recap) 1) https://classroom.thenational.academy/lessons/factorising-single-brackets-70rkqr</p> <p>Title: Factorising quadratics 1) Watch the video and copy down 2 examples: https://corbettmaths.com/2013/02/06/factorising-quadratics-1/ 2) Optional: Try this lesson if you need more help after watching the video https://classroom.thenational.academy/lessons/factorise-a-quadratic-cqukit 3) Try some of the questions from this worksheet: https://corbettmaths.com/wp-content/uploads/2018/09/Factorising-Quadratics-pdf.pdf</p> <p>Title: Difference of two squares 1) https://classroom.thenational.academy/lessons/factorise-a-quadratic-difference-of-two-squares-71jpac</p>

