

## Maths Remote Learning Spring 2021 – Year 6

Area	Resources														
Arithmetic  Times Tables	<p>It is crucial that children keep up with rehearsing their arithmetic skills. In the resources folder, you will find some arithmetic tests to have a go at. Year 6 times tables sheets (mixed sheets for times table practice).</p> <p>TT Rockstars - <a href="https://trockstars.com/">https://trockstars.com/</a> It is important to keep rehearsing your times tables. They are used for many areas of mathematics and their instant recall will really help you to access harder mathematical concepts. Ask someone to test you regularly. <a href="https://www.topmarks.co.uk/maths-games/hit-the-button">https://www.topmarks.co.uk/maths-games/hit-the-button</a> Games - <a href="https://www.topmarks.co.uk/maths-games/7-11-years/times-tables">https://www.topmarks.co.uk/maths-games/7-11-years/times-tables</a> Problem-solving games - <a href="https://www.topmarks.co.uk/maths-games/7-11-years/problem-solving">https://www.topmarks.co.uk/maths-games/7-11-years/problem-solving</a></p>														
Easimaths	<p><a href="http://www.rmeasimaths.com">www.rmeasimaths.com</a>. This is new version of RM Easimaths. Please complete 3-5 times per week.</p>														
Maths															
Fractions	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td>To find equivalent fractions.</td></tr> <tr><td>To simplify fractions.</td></tr> <tr><td>To convert improper fractions to mixed numbers.</td></tr> <tr><td>To convert mixed numbers to improper fractions.</td></tr> <tr><td>Fractions on a number line.</td></tr> <tr><td>Ordering and comparing fractions</td></tr> <tr><td>To add and subtract fractions.</td></tr> <tr><td>To add mixed numbers.</td></tr> <tr><td>To subtract mixed numbers.</td></tr> <tr><td>To multiply fractions by integers.</td></tr> <tr><td>To multiply fractions by fractions.</td></tr> <tr><td>To divide fractions by integers.</td></tr> <tr><td>To find a fraction of an amount.</td></tr> <tr><td>To find a fraction of an amount (find the whole).</td></tr> </tbody> </table> <p>Resources: White Rose videos and write-on sheets for fractions. A range of lessons are available at Oak National Academy: <a href="https://classroom.thenational.academy/lessons/to-identify-describe-and-represent-fractions-ccw3ee">https://classroom.thenational.academy/lessons/to-identify-describe-and-represent-fractions-ccw3ee</a> <a href="https://classroom.thenational.academy/lessons/understanding-equivalence-75hkge">https://classroom.thenational.academy/lessons/understanding-equivalence-75hkge</a> <a href="https://classroom.thenational.academy/lessons/finding-equivalent-fractions-ctgp4r">https://classroom.thenational.academy/lessons/finding-equivalent-fractions-ctgp4r</a> <a href="https://classroom.thenational.academy/lessons/compare-fractions-less-than-one-c4ukcc">https://classroom.thenational.academy/lessons/compare-fractions-less-than-one-c4ukcc</a> <a href="https://classroom.thenational.academy/lessons/compare-fractions-greater-than-one-c8vkgr">https://classroom.thenational.academy/lessons/compare-fractions-greater-than-one-c8vkgr</a></p>	To find equivalent fractions.	To simplify fractions.	To convert improper fractions to mixed numbers.	To convert mixed numbers to improper fractions.	Fractions on a number line.	Ordering and comparing fractions	To add and subtract fractions.	To add mixed numbers.	To subtract mixed numbers.	To multiply fractions by integers.	To multiply fractions by fractions.	To divide fractions by integers.	To find a fraction of an amount.	To find a fraction of an amount (find the whole).
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	<p>Fractions matching game - <a href="https://phet.colorado.edu/sims/html/fraction-matcher/latest/fraction-matcher_en.html">https://phet.colorado.edu/sims/html/fraction-matcher/latest/fraction-matcher_en.html</a></p> <p>Fraction activity - would you rather? <a href="https://nrich.maths.org/1118/index">https://nrich.maths.org/1118/index</a></p> <p>Fraction mazes</p>
Position and Direction	<ul style="list-style-type: none"> <li>• Coordinates in the first quadrant</li> <li>• Coordinates in the second quadrant</li> <li>• Translations</li> <li>• Reflections</li> </ul>
	<p>Guide to coordinates - <a href="https://www.bbc.co.uk/bitesize/topics/zgthvcw/articles/z96k9qt">https://www.bbc.co.uk/bitesize/topics/zgthvcw/articles/z96k9qt</a></p> <p>Guide to translation -</p> <p>Oak National Academy:</p> <p><a href="https://classroom.thenational.academy/lessons/describing-coordinate-positions-on-a-grid-6hgpap">https://classroom.thenational.academy/lessons/describing-coordinate-positions-on-a-grid-6hgpap</a></p> <p><a href="https://classroom.thenational.academy/lessons/translating-simple-shapes-6hjpat">https://classroom.thenational.academy/lessons/translating-simple-shapes-6hjpat</a></p> <p><a href="https://classroom.thenational.academy/lessons/reflecting-simple-shapes-6mu3ec">https://classroom.thenational.academy/lessons/reflecting-simple-shapes-6mu3ec</a></p> <p>Games:</p> <p><a href="https://mathsframe.co.uk/en/resources/resource/469/Coordinates-Alien-Attack">https://mathsframe.co.uk/en/resources/resource/469/Coordinates-Alien-Attack</a></p> <p><a href="http://www.teacherled.com/2015/05/05/show-the-coordinate/">http://www.teacherled.com/2015/05/05/show-the-coordinate/</a></p> <p><a href="https://nrich.maths.org/6288">https://nrich.maths.org/6288</a></p> <p>Resources:</p> <p>Coordinates activities</p>
Decimals	<ul style="list-style-type: none"> <li>• Decimals up to 2 d.p</li> <li>• Understanding thousandths</li> <li>• Three decimal places</li> <li>• Multiply by 10, 100, 1000</li> <li>• Divide by 10, 100, 1000</li> <li>• Multiply decimals by integers</li> <li>• Divide decimals by integers</li> <li>• Decimals as fractions</li> <li>• Converting fractions to decimals</li> </ul>
	<p>Place value of decimals - <a href="https://www.bbc.co.uk/bitesize/articles/z3d83j6">https://www.bbc.co.uk/bitesize/articles/z3d83j6</a></p> <p>What are decimals? - <a href="https://www.bbc.co.uk/bitesize/topics/zsjqtfr/articles/zsbd7p3">https://www.bbc.co.uk/bitesize/topics/zsjqtfr/articles/zsbd7p3</a></p> <p>Fractions and decimas games - <a href="https://www.topmarks.co.uk/maths-games/7-11-years/fractions-and-decimals">https://www.topmarks.co.uk/maths-games/7-11-years/fractions-and-decimals</a></p>
Percentages	<ul style="list-style-type: none"> <li>• Understand percentages</li> <li>• Converting fractions to percentages</li> <li>• Equivalent fractions, percentages and decimals</li> <li>• Finding a percentage of an amount</li> </ul>
	<p>Guide to percentages - <a href="https://www.bbc.co.uk/bitesize/topics/znjqtfr">https://www.bbc.co.uk/bitesize/topics/znjqtfr</a></p> <p>A series of lessons on percentages -</p> <p><a href="https://classroom.thenational.academy/units/percentages-and-statistics-fd0a">https://classroom.thenational.academy/units/percentages-and-statistics-fd0a</a></p>
Algebra	<ul style="list-style-type: none"> <li>• Finding a rule</li> <li>• Forming expressions</li> <li>• Substitution</li> <li>• Finding pairs of values</li> </ul>
	<p>Introduction and guides to algebra - <a href="https://www.bbc.co.uk/bitesize/topics/zghp34j">https://www.bbc.co.uk/bitesize/topics/zghp34j</a></p> <p>Basics of algebra - <a href="https://www.bbc.co.uk/teach/class-clips-video/maths-ks2-x-marks-the-thought-algebra-and-inverse-operations/z7jrkmn">https://www.bbc.co.uk/teach/class-clips-video/maths-ks2-x-marks-the-thought-algebra-and-inverse-operations/z7jrkmn</a></p>

Measures	<ul style="list-style-type: none"> <li>• Metric measures</li> <li>• Converting metric measures</li> <li>• Miles and kilometres</li> <li>• Imperial measures</li> </ul>
	<p>Converting length - <a href="https://classroom.thenational.academy/lessons/decimals-and-measures-convert-standard-lengths-60tkad">https://classroom.thenational.academy/lessons/decimals-and-measures-convert-standard-lengths-60tkad</a></p> <p>Solving problems with length - <a href="https://classroom.thenational.academy/lessons/decimals-and-measures-solving-problems-with-length-cdk32e">https://classroom.thenational.academy/lessons/decimals-and-measures-solving-problems-with-length-cdk32e</a></p>
Shape	<ul style="list-style-type: none"> <li>• Area</li> <li>• Perimeter</li> <li>• Volume</li> </ul>
	<p>Guide to area and volume - <a href="https://www.bbc.co.uk/bitesize/topics/zjbg87h">https://www.bbc.co.uk/bitesize/topics/zjbg87h</a></p> <p>Compare and classify quadrilaterals - <a href="https://classroom.thenational.academy/lessons/compare-and-classify-quadrilaterals-71h38c">https://classroom.thenational.academy/lessons/compare-and-classify-quadrilaterals-71h38c</a></p> <p>Compare and classify triangles - <a href="https://classroom.thenational.academy/lessons/compare-and-classify-triangles-6mu6at">https://classroom.thenational.academy/lessons/compare-and-classify-triangles-6mu6at</a></p> <p>Parts of a circle - <a href="https://classroom.thenational.academy/lessons/coordinates-and-shapes-to-illustrate-and-name-parts-of-a-circle-69hkec">https://classroom.thenational.academy/lessons/coordinates-and-shapes-to-illustrate-and-name-parts-of-a-circle-69hkec</a></p> <p>Problems involving circles - <a href="https://classroom.thenational.academy/lessons/coordinates-and-shapes-to-solve-practical-problems-involving-circles-68u36d">https://classroom.thenational.academy/lessons/coordinates-and-shapes-to-solve-practical-problems-involving-circles-68u36d</a></p> <p>Area of triangles - <a href="https://classroom.thenational.academy/lessons/decimals-and-measures-calculating-the-area-of-parallelograms-and-triangles-ccu32c">https://classroom.thenational.academy/lessons/decimals-and-measures-calculating-the-area-of-parallelograms-and-triangles-ccu32c</a></p> <p>Converting between measures - <a href="https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-standard-measures-6cupac">https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-standard-measures-6cupac</a></p> <p>Shape games - <a href="https://www.topmarks.co.uk/maths-games/7-11-years/shape-position-and-movement">https://www.topmarks.co.uk/maths-games/7-11-years/shape-position-and-movement</a></p>
Ratio	<ul style="list-style-type: none"> <li>• Ratio language</li> <li>• Ratio and fractions</li> <li>• Calculating ratio</li> <li>• Using scale factors</li> <li>• Ratio and proportion problems</li> </ul>
	<p>Guides to ratio - <a href="https://www.bbc.co.uk/bitesize/topics/zsq7hyc">https://www.bbc.co.uk/bitesize/topics/zsq7hyc</a></p> <p>Series of lessons on ratio and proportion - <a href="https://classroom.thenational.academy/units/proportion-problems-1d07">https://classroom.thenational.academy/units/proportion-problems-1d07</a></p>