

# Subject Theme Overview

Year 3

Charlton Kings Junior School

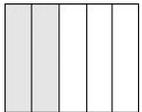
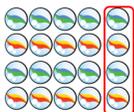
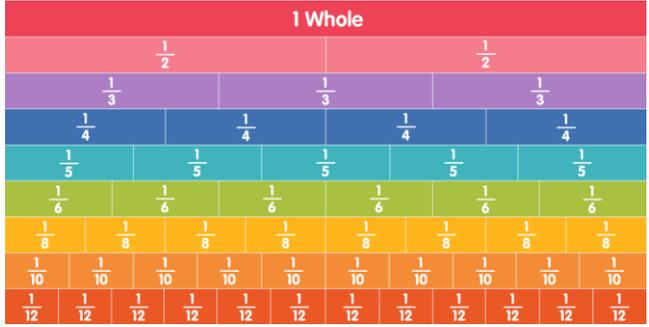


<b>Subject</b>	Maths	<b>Term</b>	Spring
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Area	What I should already be able to do	What I will be able to do by the end of term
Calculating: x and ÷	<ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the <b>3, 4 and 8</b> as well as <b>2, 5 and 10</b> multiplication tables</li> </ul>	<ul style="list-style-type: none"> <li>Write and calculate mathematical statements for <b>two-digit numbers times one-digit numbers</b>, using mental and progressing to formal written methods</li> </ul>
Time	<ul style="list-style-type: none"> <li>Tell and write the time <b>to five minutes</b>, including quarter past/to the hour and draw the hands on a clock face to show these times</li> <li>Know the <b>number of minutes in an hour</b> and the <b>number of hours in a day</b></li> <li>Compare and sequence intervals of time</li> </ul>	<ul style="list-style-type: none"> <li>Estimate and read time <b>to the nearest minute</b></li> <li>Tell and write the time from <b>an analogue clock</b>, including using Roman numerals from I to XII</li> <li>Know the <b>number of seconds in a minute</b> and the <b>number of days in each month, year and leap year</b></li> <li>Record and compare time in terms of seconds, minutes and hours and calculate the time taken by particular events or tasks.</li> </ul>
Exploring Fractions	<ul style="list-style-type: none"> <li>Recognise, find, name and write <b>fractions</b> <math>\frac{1}{2}</math>, <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li> <li>Write simple fractions, for example <math>\frac{1}{2}</math> of 6 = 3 and recognise the <b>equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math></b>.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise, find and write unit (e.g. <math>\frac{1}{3}</math>) and non-unit fractions (e.g. <math>\frac{2}{3}</math>) of a set of objects for <b>all small denominators</b>.</li> <li>Recognise and use fractions as numbers.</li> <li>Recognise and show <b>equivalent fractions with small denominators</b></li> <li>Compare and order unit fractions, and fractions with the same denominators</li> </ul>
Measurement	<ul style="list-style-type: none"> <li>Choose and use appropriate standard units to estimate and measure length (<b>m/cm</b>); mass (kg/g); capacity (litres/ml) to the nearest appropriate unit, using practical equipment.</li> <li>Compare and order lengths, mass and volume/capacity</li> </ul>	<ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (<b>m/cm/mm</b>); mass (kg/g); volume/capacity (l/ml)</li> <li>Measure the perimeter (the distance around the outside) of simple 2-d shapes</li> </ul>
Calculating: Fractions and Decimals	<ul style="list-style-type: none"> <li>Count in <b>halves, thirds and quarters</b> up to 10, starting from any number and recognising that <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math> are equivalent.</li> </ul>	<ul style="list-style-type: none"> <li>Count up and down in <b>tenths as both fractions and decimals</b>; recognise tenths arise when dividing one-digit numbers by 10.</li> <li>Add and subtract fractions <b>with the same denominator</b> within one whole (e.g. <math>\frac{5}{7} + \frac{1}{7} = \frac{6}{7}</math>)</li> </ul>

Number facts I must know																				
<b>Addition facts</b> Within 10 and 20 e.g. 3 + 5 = 8; 7 + 8 = 15; 12 + 6 = 18;																				
<b>Subtraction facts</b> Within 10 and 20 e.g. 8 - 5 = 3; 15 - 7 = 8																				
<b>Multiplication facts</b> 2, 3, 4, 5, 8 and 10 x tables																				
<b>Division facts</b> 2, 3, 4, 5, 8 and 10 x tables																				
Key Calculation Methods																				
Grid Multiplication																				
<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 20px;"></td> <td style="width: 20px;"><b>x</b></td> <td style="width: 20px;"><b>3</b></td> <td style="width: 20px;"></td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;"><b>7</b></td> <td style="width: 20px;"><b>0</b></td> <td style="width: 20px;"><b>2</b></td> <td style="width: 20px;"><b>1</b></td> <td style="width: 20px;"><b>0</b></td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;"><b>4</b></td> <td style="width: 20px;"></td> <td style="width: 20px;"><b>1</b></td> <td style="width: 20px;"><b>2</b></td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;"><b>=</b></td> <td style="width: 20px;"><b>2</b></td> <td style="width: 20px;"><b>2</b></td> <td style="width: 20px;"><b>2</b></td> </tr> </table>		<b>x</b>	<b>3</b>			<b>7</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>		<b>4</b>		<b>1</b>	<b>2</b>		<b>=</b>	<b>2</b>	<b>2</b>	<b>2</b>
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Key vocabulary	
<p><b>Time</b></p> <p>Analogue clock</p>  <p>o'clock a.m. – morning, before noon p.m. - afternoon noon midnight</p>	<p><b>Fractions</b></p> <p style="text-align: center; color: blue;">numerator (number of parts we have)</p> <div style="text-align: center;">  <p style="color: blue;">denominator (total parts in whole)</p> </div> <p>unit fraction – fraction with a numerator of 1 non-unit fraction – fraction with a numerator &gt; 1</p> <p>equivalent fractions – fractions that represent the same amount of the whole</p> <p><b>Measurement</b></p> <p>Perimeter – the distance around the outside of a 2D shape</p>

Models and images that will be used to support my understanding		
<p>Fraction of a shape</p>  <p style="text-align: center;"><math>\frac{2}{5}</math></p>	<p>Fraction of a set of objects</p>  <p style="text-align: center;"><math>\frac{2}{10}</math></p>	<p>Fraction Wall – Equivalent Fractions</p> 
<p>Fractions as numbers - Counting in tenths</p> 