

# Year 5 Maths Curriculum Medium Term Plan (Learning Objectives)- Spring Term 2017

Whole School Theme: <b>Present, Past and Future</b> / Year group Theme: <b>Devilish Democracy</b>	
Values	Bravery/Forgiveness
Learning Skills	-Curiosity -Communication -Teamwork -Determination -Confidence -Independence -Focus -Aspiration
Curriculum Drivers	<b>Knowledge of the world-</b> Who am I? What is my locality? How do I fit in with the wider world? <b>Possibilities-</b> How can I 'Be the Best I can Be?' How can I make the most of my opportunities? <b>Community-</b> How can I take responsibility for my school and local community? How does my community compare with others? How can I help others?
Blocked Learning	<p><b><u>Fractions (including decimals and percentages)</u></b></p> <ul style="list-style-type: none"> <li>• identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li> <li>• recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt;1</math> as a mixed number [for example, <math>\frac{7}{5} + \frac{4}{5} = \frac{11}{5} = 1\frac{1}{5}</math>]</li> <li>• add and subtract fractions with the same denominator and denominators that are multiples of the same number</li> <li>• multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li> <li>• read and write decimal numbers as fractions [for example, <math>0.71 = \frac{71}{100}</math>]</li> <li>• recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li> <li>• round decimals with two decimal places to the nearest whole number and to one decimal place</li> <li>• read, write, order and compare numbers with up to three decimal places</li> <li>• solve problems involving number up to three decimal places</li>   <li>• recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</li> <li>• solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</li> </ul> <p><b><u>Measurements</u></b></p> <ul style="list-style-type: none"> <li>• convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</li> <li>• understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li> <li>• measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</li> <li>• calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes</li> <li>• estimate volume [for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]</li> <li>• solve problems involving converting between units of time</li> <li>• use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling</li> </ul> <p>(4 weeks)</p> <p><b><u>Multiplication and Division</u></b></p> <ul style="list-style-type: none"> <li>• solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</li> </ul> <p>(2 weeks)</p>
Ongoing	<p><b><u>Addition and Subtraction</u></b></p> <ul style="list-style-type: none"> <li>• add and subtract numbers mentally with increasingly large numbers</li> <li>• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> </ul> <p><b><u>Multiplication and Division</u></b></p> <ul style="list-style-type: none"> <li>• solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</li> <li>• solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</li> <li>• solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</li> </ul> <p><b><u>Multiplication and Division</u></b></p> <ul style="list-style-type: none"> <li>• multiply and divide numbers mentally, drawing upon known facts</li> <li>• solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</li> <li>• solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</li> <li>• solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</li> </ul>