

**Year 5 Maths  
2016-2017**

<b>Week No</b>	<b>Content Domain and Reference</b>
<b>1 and 2</b>	5N1 - count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 5N2 - read, write, order and compare numbers to at least 1 000 000 5N3a - determine the value of each digit in numbers up to 1 000 000 5N5 - interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero 5N6 - solve number problems and practical problems that involve 5N1–5N5 5C6a - multiply and divide numbers mentally drawing upon known facts 5C6b - multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
<b>3 and 4</b>	5C1 - add and subtract numbers mentally with increasingly large numbers 5C2 - add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) 5C3 - use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy 5C4 - solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
<b>5 and 6</b>	5G2a - use the properties of rectangles to deduce related facts and find missing lengths and angles 5G2b - distinguish between regular and irregular polygons based on reasoning about equal sides and angles 5G4a - know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles 5G4b - identify: angles at a point and one whole turn (total 360o); angles at a point on a straight line and 12 a turn (total 180o); other multiples of 90o 5G4c - draw given angles and measure them in degrees (o)
<b>Project Week - Statistics</b>	
<b>7 and 8</b>	5C5a - identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers 5C6a - multiply and divide numbers mentally drawing upon known facts 5C6b - multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 5C7a - multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers 5C8a - solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes 5C8b - solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign 5M5 - convert between different units of metric measure [e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]
<b>9 and 10</b>	5C6a - multiply and divide numbers mentally drawing upon known facts 5C6b - multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 5C7b - divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context 5C8a - solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes 5C8b - solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
<b>11 and 12</b>	5F2a - recognise mixed numbers and improper fractions and convert from one form to the other; write mathematical statements $>1$ as a mixed number [e.g. $25 \div 45 = 65 = 1 \frac{15}{45}$ ] 5F2b - identify name and write equivalent fractions of a given fraction, represented

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	<p>visually, including tenths and hundredths</p> <p>5F3 - compare and order fractions whose denominators are all multiples of the same number</p> <p>5F4 - add and subtract fractions with the same denominator and denominators that are multiples of the same number</p>
<b>13 and 14</b>	<p>5N1 - count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</p> <p>5N4 - round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p> <p>5N6 - solve number problems and practical problems that involve 5N1–5N5</p> <p>5G3b - identify 3–D shapes including cubes and other cuboids, from 2–D representations</p> <p>5P2 - identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</p>
<b>15 and 16</b>	<p>5C2 - add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>5C3 - use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p> <p>5C4 - solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>5C8b - solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</p>
<b>17 and 18</b>	<p>5C5a - identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers</p> <p>5C5b - know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers</p> <p>5C5c - establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>5C5d - recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)</p> <p>5C7a - multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers</p> <p>5C7b - divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</p>
<b>19 and 20</b>	<p>Problem solving</p> <p>5M9a - use all four operations to solve problems involving measures [money] using decimal notation, including scaling</p> <p>5M9b - use all four operations to solve problems involving measure [e.g. length] using decimal notation, including scaling</p> <p>5M9c - use all four operations to solve problems involving measure [e.g. mass] using decimal notation, including scaling</p>
<b>21 and 22</b>	<p>5M6 - understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</p> <p>5M7a - measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>5M7b - 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</p>
<b>23 and 24</b>	<p>5F5 - multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p> <p>5F6a - read and write decimal numbers as fractions [e.g. 0.71 = 71/100]</p> <p>5F6b - recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>5F7 - round decimals with two decimal places to the nearest whole number and to one decimal place</p>

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	5F8 - read, write, order and compare numbers with up to three decimal places
<b>25 and 26</b>	5N3b - read Roman numerals to 1000 (M) and recognise years written in Roman numerals 5N5 - interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
<b>27 and 28</b>	5M5 - convert between different units of metric measure [e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre] 5M9a - use all four operations to solve problems involving measures [money] using decimal notation, including scaling 5S2 - solve comparison, sum and difference problems using information presented in a line graph
<b>29 and 30</b>	5S1 - complete, read and interpret information in tables, including timetables 5M4 - solve problems involving converting between units of time
<b>31 and 32</b>	5M8 - estimate volume [e.g. using $1\text{cm}^3$ blocks to build cuboids (including cubes)] and capacity [e.g. using water] 5M9d - use all four operations to solve problems involving measure [e.g. volume] using decimal notation, including scaling
<b>33 and 34</b>	5F10 - solve problems involving numbers up to three decimal places 5F11 - recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred'; write percentages as a fraction with denominator hundred, and as a decimal 5F12 - solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 5C8c - solve problems involving multiplication and division including scaling by simple fractions and problems involving simple rates
<b>35 and 36</b>	5S1 - complete, read and interpret information in tables, including timetables 5S2 - solve comparison, sum and difference problems using information presented in a line graph
<b>Project Week</b>	