## MATHS YEAR 4

## By the end of the year children in Year 4 should be secure in the following objectives:

|  | Pupils should be taught to: |
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| Number and place value | - count in multiples of $6,7,9,25$ and 1000 <br> - find 1000 more or less than a given number <br> - count backwards through zero to include negative numbers <br> - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) <br> - order and compare numbers beyond 1000 <br> - identify, represent and estimate numbers using different representations <br> - round any number to the nearest 10,100 or 1000 <br> - solve number and practical problems that involve all of the above and with increasingly large positive numbers read Roman numerals to 100 ( $I$ to $C$ ) and know that over time, the numeral system changed to include the concept of zero and place value. |
| Addition and subtraction | - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate <br> - estimate and use inverse operations to check answers to a calculation <br> - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. |
| Multiplication and division | - recall multiplication and division facts for multiplication tables up to 12 $\times 12$ <br> - use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1 ; multiplying together three numbers <br> - recognise and use factor pairs and commutativity in mental calculations <br> - multiply two-digit and three-digit numbers by a one-digit number using formal written layout <br> - solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as $n$ objects are connected to m objects. |
| Fractions (inc decimals and percentages) | - recognise and show, using diagrams, families of common equivalent fractions <br> - count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. <br> - solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number <br> - add and subtract fractions with the same denominator |

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\begin{array}{|c|l|}\hline & \begin{array}{l}\text { - recognise and write decimal equivalents of any number of tenths or } \\
\text { hundredths }\end{array} \\
\text { - recognise and write decimal equivalents to } \frac{1}{4}, \frac{1}{2}, \frac{3}{4} \\
\text { - find the effect of dividing a one- or two-digit number by } 10 \text { and } 100, \\
\text { identifying the value of the digits in the answer as ones, tenths and } \\
\text { hundredths }\end{array}
$$\right] \begin{array}{l}- round decimals with one decimal place to the nearest whole number <br>
- compare numbers with the same number of decimal places up to two <br>

decimal places\end{array}\right\}\)| - solve simple measure and money problems involving fractions and |
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| decimals to two decimal places. |

