## Maths Medium Term Plan Year 5

|  | Week 1 ${ }^{\text {a }}$ Week 2 ${ }^{\text {a }}$ Week 3 | Week 4 Week 5 | Week 6 Week 7 | Week 8 Week 9 | Week 10 Week 11 | Week 12 |
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| $$ | Number and Place Value <br> \& read, write, order and compare numbers to at least 1000000 and determine the value of each digit <br> \& count forwards or backwards in steps of powers of 10 for any given number up to 1000000 <br> * interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero <br> \& round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000 <br> \& solve number problems and practical problems that involve all of the above <br> \& read Roman numerals to 1000 (M) and recognise years written in Roman numerals. | Addition and <br> subtraction <br> * add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <br> * add and subtract numbers mentally with increasingly large numbers <br> a use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy <br> * solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. | Statistics <br> \&solve comparison, sum and difference problems using information presented in a line graph <br> * complete, read and interpret information in tables, including timetables | Number: Multiplication and Division <br> - multiply and divide numbers mentally drawing upon known facts <br> $\because$ multiply by 10,100 and 1000 <br> \&identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers <br> * know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers <br> - establish whether a number up to 100 is prime and recall prime numbers up to 19 <br> * recognise and use square numbers and cube numbers, and the notation for squared $\left(^{(2)}\right.$ and cubed ${ }^{(3)}$ <br> * solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes <br> \& solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. | Measurement: Area and Perimeter <br> * measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> - calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres ( $\mathrm{cm}^{2}$ ) and square metres ( $\mathrm{m}^{2}$ ) and estimate the area of irregular shapes. | $\begin{aligned} & \text { 으 } \\ & \text { 흐 } \\ & \hline \bar{O} \\ & \hline \overline{0} \\ & \overline{0} \\ & 0 \end{aligned}$ |

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Number: Multiplication and Division
*- 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 * multiply and divide numbers mentally drawing upon known facts * 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

* solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign

Number: Fractions
\&compare and order fractions whose denominators are all multiples of the same number
*. identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths * recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $2 / 5+4 / 5$ $=6 / 5=11 / 5]$

* add and subtract fractions with the same denominator and denominators that are multiples of the same number
* multiply proper fractions and mixed numbers by whole numbers, supported
by materials and diagrams
* read and write decimal numbers as fractions [for example, $0.71=71 / 100$ ]
* solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

Number: Decimals and Percentages

* read, write, order and compare numbers with up to three decimal places
* recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
*. round decimals with two decimal places to the nearest whole number and to one decimal place
- solve problems involving number up to three decimal places
* 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
* solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5,4 / 5$ and those fractions with a denominator of a multiple of 10 or 25 .

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|  | Number: Decimals <br> -Recognise and write decimal equivalents of any number of tenths or hundredths <br> $\star$ Find the effect of dividing a one or two-digit number to 10 or 100 , identify the value of the digits in the answer as ones, tenths and hundredths <br> *Solve simple measure and money problems involving fractions and decimals to two decimal places <br> *.convert between different units of measure (for example km to m ) |  |  |  | Geometry: Properties of Shape <br> *identify 3-D shapes, including cubes and other cuboids, from 2-D representations <br> * know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> * draw given angles, and measure them in degrees ( ${ }^{\circ}$ ) <br> * identify: angles at a point and one whole turn (total $360^{\circ}$ ) angles at a point on a straight line and $1 / 2$ a turn (total $180^{\circ}$ ), other multiples of $90^{\circ}$ <br> * use the properties of rectangles to deduce related facts and find missing lengths and angles <br> * distinguish between regular and irregular polygons based on reasoning about equal sides and angles. |  |  | Geometry: <br> Position and Direction <br> \&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 | Measurement: Converting Units <br> *convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) <br> \% solve problems involving converting between units of time <br> \& understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints |  | Measure ment: Volume <br> estimate volume [for example, using 1 cm3 blocks to build cuboids (includin g cubes)] and capacity [for example, using water] <br> ヶuse all four operation s to solve problems involving measure | 들 <br> 으 <br> 응 <br> 0 <br> 0 <br> 0 <br> 0 |

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