## Year 4 Programme of Study - 'Term per page overview' 2017-2018 FINAL

| Term |  | National Curriculum requirements |
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| Autumn | Unit 1 Reasoning with 4 digit numbers (2 weeks) | - find 1000 more or less than a given number <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> - solve number and practical problems that involve all of the above and with increasingly large positive numbers <br> - identify, represent and estimate numbers using different representations <br> - round any number to the nearest 10,100 or 1000 <br> - count in multiples of $6,7,9,25$ and 1000 |
|  | Unit 2 <br> Addition and subtraction (3 weeks) | - 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 |
|  | Unit 3 Multiplication and division (3 weeks) | - recall multiplication and division facts for multiplication tables up to $12 \times 12$ 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 <br> - recognise and use factor pairs and commutativity in mental calculations <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> - multiply two-digit and three-digit numbers by a one-digit number using formal written layout |
|  | Unit 4 Interpreting and presenting data (2 weeks) | - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs <br> - interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs |

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| Spring | Unit 5 <br> Securing <br> multiplication <br> facts <br> (1 week) <br> Unit 6 <br> Fractions <br> (4 weeks) | - recall multiplication and division facts for multiplication tables up to $12 \times 12$ <br> - add and subtract fractions with the same denominator <br> - 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, $\left.\frac{2}{5}+\frac{4}{5}=\frac{6}{5}=1 \frac{1}{5}\right]\left(Y_{5}\right)$ <br> - 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 |
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|  | Unit 7 Time (1 week) | - convert between different units of measure [for example, hour to minute] <br> - problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days <br> - write and convert time between analogue and digital 12 - and 24 -hour clocks |
|  | Unit 8 Decimals <br> (3 weeks) | - find the effect of dividing a one- or two-digit number by 10 and 100 , identifying the value of the digits in the answer as ones, tenths and hundredths <br> - recognise and write decimal equivalents of any number of tenths or hundredths <br> - recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$ <br> - round decimals with one decimal place to the nearest whole number <br> - compare numbers with the same number of decimal places up to two decimal places |
|  | Unit 9 <br> Area and perimeter (2 weeks) | - measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres <br> - convert between different units of measure [for example, kilometre to metre] <br> - find the area of rectilinear shapes by counting squares <br> - calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres $\left(\mathrm{cm}^{2}\right)$ and square metres $\left(\mathrm{m}^{2}\right)(\mathrm{Y} 5)$ <br> - measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres (Y5) |

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| Summer | Unit 10 Solving measure and money problems (3 weeks) | - convert between different units of measure [for example, kilometre to metre; hour to minute] <br> - solve simple measure and money problems involving fractions and decimals to two decimal places <br> - estimate, compare and calculate different measures, including money in pounds and pence |
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|  | $\begin{aligned} & \hline \text { Unit 11 } \\ & \text { 2-D shape } \\ & \text { and } \\ & \text { symmetry } \\ & \text { (3 weeks) } \end{aligned}$ | - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes <br> - identify acute and obtuse angles and compare and order angles up to two right angles by size <br> - identify lines of symmetry in 2-D shapes presented in different orientations <br> - complete a simple symmetric figure with respect to a specific line of symmetry |
|  | Unit 12Position and <br> direction(1 week) | - describe positions on a 2-D grid as coordinates in the first quadrant <br> - describe movements between positions as translations of a given unit to the left/right and up/down <br> - plot specified points and draw sides to complete a given polygon |
|  | Unit 13 Reasoning with patterns and sequences (2 weeks) | - 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 <br> - count backwards through zero to include negative numbers <br> - recognise and use square numbers, and the notation for squared $\left.{ }^{(2}\right)(\mathrm{Y} 5)$ |
|  | Unit 14 3-D shape (1 week) | - identify 3-D shapes, including cubes and other cuboids, from 2-D representations ( $\mathrm{Y}_{5}$ ) |

