| Year Three |  |
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| Number <br> Place value | - Count from $\mathbf{0}$ in multiples of 4, 8, 50 and 100; find $\mathbf{1 0}$ or $\mathbf{1 0 0}$ more or less than a given number. <br> - Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). <br> - Compare and order numbers up to 1000. <br> - Round numbers (up to 1000) to the nearest ten or hundred. <br> - Identify, represent and estimate numbers using different representations. <br> - Read and write numbers up to $\mathbf{1 0 0 0}$ in numerals and in words. <br> - Use larger numbers to at least 1000, applying partitioning to place value [for example, $146=100+40+6 ; 146=130+16$ ]. <br> - Solve number problems and practical problems involving these ideas. |
| Addition and Subtraction | - Add and subtract numbers mentally, including: <br> - a three-digit number and ones; <br> - a three-digit number and tens; <br> - a three-digit number and hundreds. <br> - Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. [See Calculation Policy and video footage.] <br> - Estimate the answer to a calculation [by using rounding] and use inverse operations to check answers. <br> - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. |
| Multiplication and Division | - Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. [Through doubling, connect the 2,4\&8 multiplication tables.] <br> - Develop efficient mental methods [for example, $4 \times 12 \times 5=4 \times 5 \times 12=20 \times 12=240$ and $3 \times 2=6 ; 6 \div 3=2$ and $6 \div 2=3$ ]. <br> - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for twodigit numbers times one-digit numbers, using mental and progressing to formal written methods. <br> - Solve problems, including: <br> - missing number problems <br> - positive integer scaling problems [for example, four times as high, eight times as long] <br> - correspondence problems in which $n$ objects are connected to $m$ objects [ for example, 3 hats and four coats, how many different outfits?] |
| Fractions | - Count up and down in tenths; recognise that tenths arise from dividing an object into $\mathbf{1 0}$ equal parts and in dividing one-digit numbers or quantities by 10. [Link to division by 10.] <br> - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. <br> - Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. [Use number lines to deduce relationships between them, such as size and equivalence.] <br> - Recognise and show, using diagrams, equivalent fractions with small denominators. <br> - Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]. <br> - Compare and order unit fractions, and fractions with the same denominators. <br> - Solve problems that involve all of the above. |


| Measurement | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ). [Compare and use mixed units such as 1 kg and 200 g . use simple equivalents of mixed units, for example, $5 \mathrm{~m}=500 \mathrm{~cm}$.] <br> - Measure the perimeter of simple 2-D shapes. <br> - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. [Record $£$ and $p$ separately as the decimal recording of money is introduced formally in Y4.] <br> - Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. <br> - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours. <br> - Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. <br> - Know the number of seconds in a minute and the number of days in each month, year and leap year. <br> - Compare durations of events [for example to calculate the time taken by particular events or tasks]. |
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| Geometry <br> Properties of Shapes | - Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them [extending at this stage to symmetrical and non-symmetrical polygons and polyhedral]. <br> - Recognise angles as a property of shape or a description of a turn. <br> - Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn. <br> - Identify whether angles are greater than or less than a right angle. <br> - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. <br> - Connect decimals and rounding to drawing and measuring straight lines in centimetres. |
| Statistics | - Interpret and present data using bar charts, pictograms and tables. <br> - Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts [for example, 2, 5, 10 units per cm ] and pictograms and tables. |

