Key Learning Indicators of Performance: Year 5

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Number – number and place value	Number – addition and subtraction	Number - multiplication and division	
 Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. Count forwards and backwards in decimal steps. Read, write, order and compare numbers to at least 1000 000 and determine the value of each digit. Read, write, order and compare numbers with up to 3 decimal places. Identify the value of each digit to three decimal places. Identify represent and estimate numbers using the number line. Find 0.01, 0.1, 1, 10, 100, 100 and other powers of 10 more or less than a given number. Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. Round decimals with two decimal places to the nearest whole number and to one decimal place. Multiply/divide whole numbers and decimals by 10, 100 and 1000. Interpret negative numbers in context, count on and back with positive and negative whole numbers, including through zero. Describe and extend number sequences including those with multiplication/division steps and where the step size is a decimal. Read Roman numerals to 1000 (M); recognise years written as such. Solve number and practical problems that involve all of the above. 	 Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jottling, written method). Select a mental strategy appropriate for the numbers involved in the calculation. Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place). Derive and use addition and subtraction facts for 1 (with decimal numbers to two decimal places). Add and subtract numbers mentally with increasingly large numbers and decimals to two decimal places. Add and subtract whole numbers with more than 4 digits and decimals with two decimal places, including using formal written methods (columnar addition and subtraction). Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Solve addition and subtraction problems involving missing numbers. 	 Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method). Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19. Recognise and use square (²) and cube (³) numbers, and notation. Use partitioning to double or halve any number, including decimals to two decimal places. Multiply and divide numbers mentally drawing upon known facts. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. 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. 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. Use estimation/inverse to check answers to calculations; determine, in the context of a problem, an appropriate degree of accuracy. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. 	

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one form to the other. Read and write decimal numbers as fractions (e.g. 0.71 = 71/100). Count on and back in mixed number steps such as 1 ½. Compare and order fractions whose denominators are all multiples of the same number (including on a number line). Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Add and subtract fractions with denominators that are the same and that are multiples of the same number (using diagrams). Write statements > 1 as a mixed number (e.g. ½ + ¼ = ½ = 1 ½). Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a	ment read and write standard units of length and mass. nate (and calculate) volume ((e.g., using 1 cm³ blocks to
one form to the other. Read and write decimal numbers as fractions (e.g. 0.71 = 71/100). Count on and back in mixed number steps such as 1½. Compare and order fractions whose denominators are all multiples of the same number (including on a number line). Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Add and subtract fractions with denominators that are the same and that are multiples of the same number (using diagrams). Write statements > 1 as a mixed number (e.g. ½ + ¼ = ½ = 1 ½). Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a	
Solve problems involving fractions and decimals to three places. 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 fractions with a denominator of a multiple of 10 or 25. Solve problems involving fractions and decimals to three places. Plot specified points and complete shapes. 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.	cuboids (including cubes)) and capacity (e.g. using water). erstand the difference between liquid volume and solid me. inue to order temperatures including those below 0°C. vert between different units of metric measure. erstand and use approximate equivalences between metric and common imperial units such as inches, pounds and course/calculate the perimeter of composite rectilinear es. ulate and compare the area of rectangle, use standard units recentimetres (cm²) and square metres (m²) and estimate rea of irregular shapes. inue to read, write and convert time between analogue digital 12 and 24-hour clocks. e problems involving converting between units of time. all four operations to solve problems involving measure adecimal notation, including scaling.
Statistics	nlete and interpret information in a variety of sorting

- Complete and interpret information in a variety of sorting diagrams (including those used to sort properties of numbers and shapes).
- Complete, read and interpret information in tables and timetables.
- Solve comparison, sum and difference problems using information presented in *all types of graph including* a line graph.
- Calculate and interpret the mode, median and range.