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| **Number – number and place value** | **Number – addition and subtraction** | **Number – multiplication and division** |
| * Count in multiples of 6, 7, 9, 25 and 1000. * Count backwards through zero to include negative numbers. * Count up and down in hundredths. * *Read and write numbers to at least 10 000.* * *Read and write numbers with up to two decimal places.* * Recognise the place value of each digit in a four-digit number. * *Identify the value of each digit to two decimal places.* * *Partition numbers in different ways (e.g. 2.3 = 2+0.3 & 1+1.3).* * Identify, represent and estimate numbers using different representations *(including the number line).* * Order and compare numbers beyond 1000. * *Order and* compare numbers with the same number of decimal places up to two decimal places. * Find *0.1, 1, 10, 100 or* 1000 more or less than a given number. * Round any number to the nearest 10, 100 or 1000. * Round decimals (one decimal place) to the nearest whole number. * Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer. * *Describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps.* * Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value. * Solve number and practical problems that involve all of the above and with increasingly large positive 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).* * *Select a mental strategy appropriate for the numbers involved in the calculation.* * *Recall and use addition and subtraction facts for 100.* * *Recall and use +/- facts for multiples of 100 totalling 1000.* * *Derive and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place).* * *Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place.* * Add and subtract numbers with up to 4 digits *and decimals with one decimal place* using the formal written methods of columnar addition and subtraction where appropriate. * Estimate; use inverse operations to check answers to a calculation. * Solve addition and subtraction two-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).* * Recognise and use factor pairs and commutativity in mental calculations. * Recall multiplication and division facts for multiplication tables up to 12 × 12. * *Use partitioning to double or halve any number, including decimals to one decimal place.* * 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.   * Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. * *Divide numbers up to 3 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.* * *Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.* * Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, *division (including interpreting remainders),* integer scaling problems and harder correspondence problems such as n objects are connected to m objects. |

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| **Number – fractions, decimals and percentages** | **Geometry – properties of shapes** | **Measurement** |
| * *Understand that a fraction is one whole number divided by another (e.g. can be interpreted as 3 ÷ 4).* * *Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators.* * Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. * *Count on and back in steps of unit fractions.* * *Compare and order unit fractions and fractions with the same denominators (including on a number line).* * Recognise and show, using diagrams, families of common equivalent fractions. * Recognise and write decimal equivalents of any number of tenths or hundredths. * Recognise and write decimal equivalents to , , . * Add and subtract fractions with the same denominator *(using diagrams).* * 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. * Solve simple measure and money problems involving fractions and decimals to two decimal places. | * Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. * Identify lines of symmetry in 2-D shapes presented in different orientations. * Complete a simple symmetric figure with respect to a specific line of symmetry. * *Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines.* * Identify acute and obtuse angles and compare and order angles up to two right angles by size. | * Estimate, compare and calculate different measures, including money in pounds and pence. * *Order temperatures including those below 0°C.* * Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. * *Know area is a measure of surface within a given boundary.* * Find the area of rectilinear shapes by counting squares. * Convert between different units of measure [e.g. kilometre to metre; hour to minute]. * Read, write and convert time between analogue and digital 12- and 24-hour clocks. * *Write amounts of money using decimal notation.* * *Recognise that one hundred 1p coins equal £1 and that each coin is of £1.* * Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days *and problems involving money and measures.* |
| **Geometry – position and direction** |
| * Describe positions on a 2-D grid as coordinates in the first quadrant. * Plot specified points and draw sides to complete a given polygon. * Describe movements between positions as translations of a given unit to the left/right and up/down. |
|  |  | **Statistics** |
|  |  | * *Use a variety of sorting diagrams to* compare and classify *numbers and* geometric shapes based on their properties and sizes. * Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs. * Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. |