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| **Number – number and place value** | **Number – addition and subtraction** | **Number – multiplication and division** |
| * Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.
* Read and write numbers to at least 100 in numerals and in words.
* Recognise the place value of each digit in a two-digit number (tens, ones).
* Identify, represent and estimate numbers using different representations, including the number line.
* *Partition numbers in different ways (e.g. 23 = 20 + 3 and 23 = 10 + 13).*
* Compare and order numbers from 0 up to 100; use <, > and = signs.
* *Find 1 or 10 more or less than a given number.*
* *Round numbers to at least 100 to the nearest 10.*
* *Understand the connection between the 10 multiplication table and place value.*
* *Describe and extend simple sequences involving counting on or back in different steps.*
* Use place value and number facts to solve problems.
 | * *Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting).*
* *Select a mental strategy appropriate for the numbers involved in the calculation.*
* Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.
* *Understand subtraction as take away and difference (how many more, how many less/fewer).*
* Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
* *Recall and use number bonds for multiples of 5 totalling 60 (to support telling time to nearest 5 minutes).*
* Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:

- a two-digit number and ones.- a two-digit number and tens.- two two-digit numbers.- adding three one-digit numbers.* Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
* Solve problems with addition and subtraction *including with missing numbers:*- using concrete objects and pictorial representations, including those involving numbers, quantities and  measures.- applying their increasing knowledge of mental and  written methods.
 | * *Understand multiplication as repeated addition.*
* *Understand division as sharing and grouping and that a division calculation can have a remainder.*
* Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.
* Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.
* *Derive and use doubles of simple two-digit numbers (numbers in which the ones total less than 10).*
* *Derive and use halves of simple two-digit even numbers (numbers in which the tens are even).*
* Calculate mathematical statements for multiplication *using repeated addition)* and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.
* Solve problems involving multiplication and division *(including those with remainders)*, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
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| **Number – fractions** | **Geometry – properties of shapes** | **Measurement** |
| * *Understand and use the terms numerator and denominator.*
* *Understand that a fraction can describe part of a set.*
* *Understand that the larger the denominator is, the more pieces it is split into and therefore the smaller each part will be.*
* Recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity.
* Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.
* *Count on and back in steps of* $\frac{1}{2}$ *and* $\frac{1}{4}$*.*
 | * Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.
* Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.
* Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].
 | * Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity and volume (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.
* Compare and order lengths, mass, volume/capacity and record the results using >, < and =.
* Recognise and use symbols for pounds (£) and pence (p).
* Combine amounts to make a particular value.
* Find different combinations of coins that equal the same amounts of money.
* Compare and sequence intervals of time.
* Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.
* Know the number of minutes in an hour and the number of hours in a day.
* Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change *and measures (including time).*
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| **Geometry – position and direction** |
| * Order/arrange combinations of mathematical objects in patterns/sequences.
* Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).
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|  |  | **Statistics** |
|  |  | * Compare and sort *objects, numbers and* common 2-D and 3-D shapes and everyday objects.
* Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.
* Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.
* Ask and answer questions about totalling and comparing categorical data.
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