

|        | Year 1   | Year 2  | Year 3   | Year 4   | Year 5   | Year 6   |
|--------|--|---|--|--|--|--|
| Number | <p>Count to 100 (first 0 – 10, then to 20, then to 40 then to 100).</p> <p>Read and write numbers from 0 to 100 (first 0 – 10, then to 20, then to 40 then to 100).</p> <p>Compare and order numbers from 0 to 100 (first 0 – 10, then to 20, then to 40 then to 100).</p> <p>Make different number bonds for numbers up to 10.</p> <p>Make number stories</p> <p>Complete number patterns.</p> <p>Use a place-value chart to show numbers in tens and ones.</p> <p>Find how much more.</p> <p>Count in twos, fives and tens to 100.</p> <p>Say a number that is 1 more or 1 less than a 2-digit number.</p> | <p>Count to 100.</p> <p>Read and write numbers to 100.</p> <p>Compare and arrange numbers within 100.</p> <p>Make and complete number patterns.</p> | <p>Count to 1000.</p> <p>Count in hundreds, tens and ones.</p> <p>Count in fifties.</p> <p>Count in fours and eights.</p> <p>Tell the value of a digit in a number.</p> <p>Compare and arrange numbers within 1000.</p> <p>Complete number patterns.</p> | <p>Count to 10 000.</p> <p>Count in thousands, hundreds, tens and ones.</p> <p>Count in twenty-fives.</p> <p>Count in sixes, sevens and nines.</p> <p>Tell the number that a digit stands for.</p> <p>Compare and arrange numbers within 10 000.</p> <p>Describe and complete number patterns.</p> <p>Round numbers and estimate sum and difference.</p> | <p>Read and write numbers to 1 000 000.</p> <p>Tell the place value of a digit in a number.</p> <p>Compare and arrange numbers within 1 000 000.</p> <p>Count forwards or backwards in steps of 1000, 10 000 and 100 000.</p> <p>Round numbers to the nearest 10, 100, 1000, 10 000 and 100 000.</p> | <p>Read and write numbers to 10 million.</p> <p>Compare and arrange numbers within 10 million.</p> <p>Tell the place value of a digit in a number.</p> <p>Round numbers to the nearest 10, 100, 1000, 10 000, 100 000 and 1 000 000.</p> |

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| Addition and Subtraction (Whole number) | <p>Add by counting.<br/>Add by counting on.<br/>Make addition stories.<br/>Write addition equations.<br/>Subtract by crossing out.<br/>Subtract using number bonds.<br/>Subtract by counting back.<br/>Make subtraction stories.<br/>Write subtraction equations.<br/>Make a family of addition and subtraction facts.<br/>Add by making 10.<br/>Add by adding ones.<br/>Subtract by subtracting ones.<br/>Subtract by subtracting from 10.<br/>Solve word problems involving addition or subtraction.</p> | <p>Add numbers without renaming.<br/>Add numbers with renaming.<br/>Subtract numbers without renaming.<br/>Subtract numbers with renaming.<br/>Add three numbers.<br/>Draw models for different situations.</p> | <p>Add numbers without renaming.<br/>Add numbers with renaming.<br/>Subtract numbers without renaming.<br/>Subtract numbers with renaming.<br/>Solve word problems involving addition and subtraction.</p> | <p>Add numbers without renaming.<br/>Add numbers with renaming.<br/>Add numbers mentally.<br/>Subtract numbers without renaming.<br/>Subtract numbers with renaming.<br/>Subtract numbers mentally.<br/>Solve word problems involving addition and subtraction.</p> | <p>Add whole numbers with more than 4 digits.<br/>Add numbers mentally.<br/>Subtract whole numbers with more than 4 digits.<br/>Subtract numbers mentally.<br/>Use rounding to check answers.<br/>Solve word problems involving addition, subtraction, multiplication and division, and a combination of these.</p> | <p>Perform mental calculations.<br/>Use estimation to check answers to calculations.<br/>Use the order of operations.<br/>Solve problems involving addition and subtraction.<br/>multiplication and division.</p> |

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| Multiplication and Division (Whole number) | <p>Make equal groups.</p> <p>Add equal groups to find the total number of objects.</p> <p>Group things equally.</p> <p>Share things equally.</p> <p>Solve word problems about multiplication.</p> | <p>Do my 2, 5 and 10 times table.</p> <p>Write multiplication equations.</p> <p>Divide a number by 2, 5 and 10.</p> <p>Write multiplication and division equations.</p> <p>Write a family of multiplication and division facts.</p> <p>Recognise odd and even numbers.</p> <p>Solve word problems using the 2, 5 and 10 times tables.</p> <p>Solve word problems involving multiplication and division.</p> | <p>Do my 3, 4 and 8 times table.</p> <p>Divide a number by 3, 4 and 8.</p> <p>Solve word problems involving the 3, 4 and 8 times tables.</p> <p>Solve word problems involving the division of 3, 4 and 8.</p> | <p>Multiply by 6, 7, 9, 11 and 12.</p> <p>Divide by 6, 7, 9, 11 and 12.</p> <p>Divide to find quotient and remainder.</p> <p>Solve word problems involving multiplication and division.</p> <p>Multiply without regrouping.</p> <p>Multiply with regrouping.</p> <p>Divide without regrouping.</p> <p>Divide with regrouping.</p> <p>Find the quotient and remainder in division.</p> <p>Solve word problems involving multiplication and division.</p> | <p>Find multiples and common multiples.</p> <p>Find factors and common factors.</p> <p>Identify prime and composite numbers.</p> <p>Recognise square numbers and cube numbers, and use the notation for squares (e.g. 42) and cubes (e.g. 23).</p> <p>Multiply numbers up to 4 digits by a 1-digit number.</p> <p>Multiply numbers up to 3 digits by a 2-digit number.</p> <p>Multiply and divide mentally.</p> <p>Multiply and divide numbers by 10, 100 and 1000.</p> <p>Divide 3-digit and 4-digit numbers.</p> <p>Solve word problems involving addition, subtraction, multiplication and division, and a combination of these.</p> | <p>Multiply numbers up to 4 digits by a 2-digit whole number.</p> <p>Divide numbers up to 4 digits by a 2-digit whole number.</p> <p>Interpret remainders in division.</p> <p>Identify common factors, common multiples and prime numbers.</p> <p>Solve problems involving multiplication and division.</p> <p>Solve problems involving the calculation and conversion of units of measure.</p> |

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| Fractions | <p>Show a half.<br/>Show a quarter.<br/>Group/share things to get a half or a quarter.<br/>Find a half or a quarter of a group of things.</p> | <p>Make and show halves, quarters and thirds.<br/>Name and write a fraction.<br/>Name fractions that make one whole.<br/>Compare and order fractions.<br/>Count wholes with halves, quarters and thirds.<br/>Find part of a set and a quantity.</p> | <p>Count in tenths.<br/>Make number pairs that form one whole.<br/>Add and subtract two fractions.<br/>Find and list equivalent fractions.<br/>Write a fraction in its simplest form.<br/>Compare fractions.<br/>Find part of a set and fraction of a number.<br/>Share a number equally.<br/>Write fractions on the number line.<br/>Write fractions that are greater than 1.<br/>Solve word problems involving fractions.</p> | <p>Count in hundredths.<br/>Write and show mixed numbers on a number line.<br/>Find equivalent fractions.<br/>Simplify fractions and mixed numbers.<br/>Add and subtract fractions.<br/>Solve word problems involving fractions.</p> | <p>Find equivalent fractions of a given fraction.<br/>Recognise mixed numbers and improper fractions and convert from one form to the other.<br/>Compare and order fractions.<br/>Add and subtract fractions.<br/>Multiply proper fractions and mixed numbers by whole numbers.</p> | <p>Find equivalent fractions using common multiples.<br/>Simplify fractions using common factors.<br/>Compare and order fractions.<br/>Add and subtract fractions.<br/>Multiply proper fractions.<br/>Divide proper fractions by whole numbers.<br/>Relate division of whole numbers to fractions and decimals.</p> |

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| Decimals   |        |        |        | <p>Recognise and write tenths.<br/>Recognise and write hundredths.<br/>Compare numbers with the same number of decimal places.<br/>Complete number patterns involving decimals.<br/>Round decimals with one decimal place to the nearest whole number.<br/>Recognise and write decimal equivalents of <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math>.<br/>Divide a 1- or 2-digit number by 10 and by 100.<br/>Solve simple measure and money problems involving decimals.</p> | <p>Read and write decimals up to three decimal places.<br/>Compare and order decimals up to three decimal places.<br/>Write fractions as decimals.<br/>Add and subtract decimals.<br/>Round decimals with two decimal places to the nearest whole number and to one decimal place.<br/>Solve problems involving decimals up to three decimal places.</p> | <p>Relate division of whole numbers to fractions and decimals.<br/>Write fractions as decimals.<br/>Tell the place value of digits in a decimal number.<br/>Multiply and divide decimals with 1-digit and 2-digit whole numbers.</p> |
| Percentage |        |        |        |  | <p>Recognise the per cent symbol (%).<br/>Find percentages of a given number.<br/>Interpret a percentage as a fraction of an amount.</p>   | <p>Calculate the percentage of a number and a quantity.<br/>Use percentage to describe changes.<br/>Use percentage to compare.</p>   |

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| Length             | <p>Compare the length of objects.</p> <p>Measure the length of objects.</p>  | <p>How to measure length in metres (m).</p> <p>How to measure length in centimetres (cm).</p> <p>When to use cm or m to measure length.</p> <p>How to compare and order length.</p> <p>How to measure and draw lines.</p> <p>How to solve word problems on length.</p> | <p>Write length in metres (m) and centimetres (cm).</p> <p>Convert length from m and cm to cm.</p> <p>Convert length from cm to m and cm.</p> <p>Write length in kilometres (km) and metres (m).</p> <p>Convert length from km and m to m.</p> <p>Convert length from m to km and m.</p> <p>Compare different lengths.</p> <p>Solve word problems on length.</p> | <p>Measure and estimate length.</p> <p>Convert units of length.</p> | <p>Convert measurements of length.</p> <p>Solve problems involving measurements.</p>  |   |
| Area and Perimeter |  |  | <p>Measure the total length around a shape.</p> <p>Find the perimeter of figures using a square grid .</p> <p>Find the perimeter of figures in centimetres (cm) and metres (m).</p> <p>Find the perimeter of squares and rectangles</p>  | <p>Measure perimeter in different units.</p>                        | <p>Find the perimeter of a figure.</p> <p>Find the area of a figure.</p> <p>Use scale diagrams to find the perimeter and the area of a figure.</p> <p>Estimate the area of a figure.</p>                                    | <p>Find the perimeter and the area of rectangles, triangles and parallelograms.</p> <p>Use formulae to find the area of rectangles, triangles and parallelograms.</p> <p>Use the area of rectangles to find the area of other types of polygons.</p>                            |
| Volume             | <p>Compare volume and capacity.</p> <p>Use half and a quarter to describe volume.</p> <p>Find volume and capacity.</p> | <p>Compare volume.</p> <p>Measure volume in litres (l) and millilitres (ml).</p> <p>Solve word problems on volume.</p>   | <p>Measure volume in millilitres (ml) and litres (l).</p> <p>Measure capacity in ml and l.</p> <p>Write volume in ml and l.</p> <p>Write capacity in ml and l.</p> <p>Solve word problems on volume and capacity</p>   | <p>Measure and estimate volume.</p> <p>Convert units of volume.</p> | <p>Find and compare the volumes of solids.</p> <p>Find and compare the capacity of rectangular boxes.</p> <p>Estimate volume and capacity.</p> <p>Convert units of volume.</p> <p>Solve word problems involving volume.</p> | <p>Find the volume of solids by counting unit cubes.</p> <p>Calculate the volume of cubes and cuboids in standard units (<math>\text{mm}^3</math>, <math>\text{cm}^3</math>, <math>\text{m}^3</math> and <math>\text{km}^3</math>).</p> <p>Solve problems involving volume.</p> |

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| Geometry | <p>Name solids and shapes.<br/>Look for shapes in solids.<br/>Group shapes.<br/>Make and complete patterns with shapes.</p> | <p>Name triangles, quadrilaterals and polygons.<br/>Identify the number of sides and vertices of a shape.<br/>Identify the lines of symmetry of a shape or figure.<br/>Form different figures with shapes.<br/>Name the shapes that make up a figure.<br/>Sort shapes.<br/>Draw figures on a square grid and a dot grid.<br/>Make and complete patterns.<br/>Tell how patterns are formed from shapes.<br/>Move shapes.<br/>Turn shapes.<br/>Recognise flat faces and curved surfaces.<br/>Name and describe spheres, cuboids, cubes, cylinders, cones, pyramids and prisms.<br/>Identify the number of faces, edges and vertices of a shape.<br/>Fold two-dimensional shapes into three-dimensional ones.<br/>Group shapes in different ways.<br/>Form structures with shapes.<br/>Make patterns with shapes.</p> | <p>Recognise an angle.<br/>Find angles in shapes.<br/>Find a right angle, an acute angle and an obtuse angle.<br/>Compare the sizes of angles.<br/>Make a half turn, a three-quarters turn and a full turn.</p> | <p>Identify acute and obtuse angles.<br/>Compare and order angles.<br/>Compare and classify triangles and quadrilaterals.<br/>Identify lines of symmetry in 2-D shapes.<br/>Complete a simple symmetrical figure with respect to a specific line of symmetry.</p> | <p>Identify acute angles, right angles, obtuse angles and reflex angles.<br/>Draw and measure given angles.<br/>Identify angles on a straight line and angles that meet at a point.<br/>Find unknown angles in squares and rectangles.<br/>Identify regular polygons.<br/>Identify 3-D shapes from 2-D drawings.</p> | <p>Recognise angles that meet at a point, angles on a straight line, and vertically opposite angles.<br/>Find unknown angles in triangles, quadrilaterals and regular polygons.<br/>Identify the radius, diameter, circumference and centre of a circle.<br/>Draw 2-D shapes using given dimensions and angles.<br/>Identify and draw nets of 3-D shapes.</p> |

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| Mass        | Compare the mass of objects.<br>Find the mass of objects. | Measure mass in kilograms (kg).<br>Measure mass in grams (g).<br>Compare and order mass.<br>Solve word problems on mass.   | Read the scales for mass in kilograms (kg) and grams (g).<br>Solve word problems on mass.  | Measure and estimate mass.<br>Convert units of mass.  | Convert measurements of mass.<br>Solve problems involving measurements. |        |
| Temperature |   | Read a thermometer.<br>Measure and write down the temperature.   |  |   | Tell the temperature.<br>Solve problems involving measurements.         |        |
| Money       | Recognise coins.<br>Recognise notes.                      | Name coins and notes.<br>Count an amount of money.<br>Show amounts of money in different ways.<br>Exchange coins and notes.<br>Compare amounts of money.<br>Calculate change.<br>Solve word problems on money. | Name the amount of money in pounds and pence.<br>Use different ways to show the same amount of money.<br>Add money in pounds and pence.<br>Subtract money in pounds and pence.<br>Calculate change in pounds and pence.<br>Solve word problems on money. | Count an amount of money and write it using decimals.<br>Compare different amounts of money.<br>Round money to the nearest £ and to the nearest £10.<br>Estimate total amounts of money.<br>Solve problems involving money. |   |        |



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| Time   | <p>Tell time to the hour.<br/>Tell time to the half hour.<br/>Compare different times.<br/>Recognise dates on a calendar.</p> | <p>Tell and write the time to 5 minutes.<br/>Draw hands on a clock face to show time.<br/>Find the duration of time.<br/>Find the ending or starting time.<br/>Compare and sequence intervals of time.<br/>Know the number of minutes in an hour.<br/>Know the number of hours in a day.</p> | <p>Tell and write time in a.m. and in p.m.<br/>Tell and write time using "past" and "to".<br/>Tell and write time shown on different types of clocks.<br/>Measure time in seconds, hours and minutes.<br/>Find starting time, ending time and duration.<br/>Change minutes to seconds, and seconds to minutes.<br/>Find the number of days using a calendar.<br/>Know the number of days in each month, year and leap year.</p> | <p>Tell time using the 24-hour clock.<br/>Change time in minutes to seconds.<br/>Change time in hours to minutes.<br/>Change time in years to months.<br/>Change time in months to years.<br/>Find the duration, starting time and finishing time.<br/>Solve word problems on time.</p> | <p>Convert measurements of time.<br/>Solve problems involving measurements.</p>   |   |
| Graphs |   | <p>Read information from pictograms, block diagrams, tally charts and tables.<br/>Make pictograms, block diagrams, tally charts and tables.<br/>Solve problems using information from pictograms, block diagrams, tally charts and tables.</p>   | <p>Draw picture graphs and bar graphs.<br/>Read and interpret bar graphs.<br/>Solve problems using information from bar graphs.</p>   | <p>Use a table to show information.<br/>Draw, read and interpret tables, picture graphs, bar graphs and line graphs.<br/>Solve problems using information from tables and graphs.</p>   | <p>Read and interpret information in a timetable.<br/>Read, interpret and complete information in a table.<br/>Read and interpret information from a line graph.<br/>Solve word problems using information from a line graph.</p> | <p>Calculate and interpret the mean as an average.<br/>Draw and read pie charts.<br/>Draw and read graphs.<br/>Solve problems using information provided by graphs.</p> |

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|-----------------------|--|--------|--------|---|---|---|
| Position and Movement | Name positions in a race and in a queue.<br>Name positions from the left and from the right.<br>Use words such as before, after, next to, last and between to name positions.<br>Describe positions.<br>Describe movements.<br>Describe turns. |        |        | Describe positions using coordinates.<br>Plot points and form figures on the grid.<br>Describe movement including translation of figures. | Write the coordinates of points.<br>Describe translations and reflections.<br>Find the position of a shape after translation or after reflection. | Use coordinate grids with negative numbers.<br>Describe positions of points with coordinates.<br>Draw, translate and reflect simple shapes on the coordinate plane. |
| Ratio                 |  |        |        |   |   | Compare quantities and numbers using ratios.<br>Solve problems involving ratios.  |
| Negative Numbers      |  |        |        |   |   | Add and subtract negative numbers.<br>Use negative numbers in context.<br>Solve problems involving negative numbers.  |
| Algebra               |  |        |        |   |   | Describe and complete a pattern.<br>Write and evaluate algebraic expressions.<br>Write and use formulae.<br>Solve equations.  |
| Roman Numerals        |  |        |        | Read and write Roman numerals for 1 to 20.<br>Read and write Roman numerals to 100.   | Write Roman numerals up to 1000.<br>Write years in Roman numerals.  |   |