



Year 1 - National Standard

AUT SPR SUM

Number system & Counting	Addition and Subtraction Multiplication and Division	Fractions and decimals	Measurement	Geometry - properties of shapes								
<p>I can count to and across 100, forwards and backwards, beginning from 0 or 1, or from any given number</p> <p>I can count, read and write numbers to 100 in numerals</p> <p>I can count in multiples of twos, five and tens</p> <p>When given a number, I can identify one more and one less</p> <p>I can identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most and least</p> <p>I can read and write numbers from 1 to 20 in numerals and words</p> <table border="1" data-bbox="78 1292 224 1436"> <tr> <td>●</td> <td>B</td> </tr> <tr> <td>-</td> <td>W</td> </tr> <tr> <td>✓</td> <td>O</td> </tr> <tr> <td>☆</td> <td>OT+</td> </tr> </table>	●	B	-	W	✓	O	☆	OT+	<p>I can read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs</p> <p>I can represent and use number bonds and related subtraction facts within 20</p> <p>I can add and subtract 1-digit and 2-digit numbers to 20, including zero</p> <p>I can solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations</p> <p>I can solve missing number problems such as $7 = ? - 9$</p> <p>I can solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher</p>	<p>I can recognise, find and name a half as one of two equal parts of an object, shape or quantity</p> <p>I can recognise, find and name a quarter as one of four equal parts of an object, shape or quantity</p>	<p>I can compare, describe and solve practical problems for:</p> <ul style="list-style-type: none"> o Lengths and heights (e.g. long/short, longer/ shorter, tall/short, double/half) o Mass or weight (e.g. heavy/light, heavier than, lighter than) o Capacity/ volume (full/empty, more than, less than, quarter) o Time (quicker, slower, earlier, later) <p>I can measure and record the following:</p> <ul style="list-style-type: none"> o Lengths and heights o Mass/weight o Capacity and volume o Time (hours, minutes, seconds) <p>I can recognise and know the value of different denominations of coins and notes</p> <p>I can sequence events in a chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening</p> <p>I can recognise and use language relating to dates, including days of the week, weeks, months and years</p> <p>I can tell the time to the hour and half past the hour and draw the hands on a clock face to show these times</p>	<p>I can recognise and name common 2-D shapes including:</p> <ul style="list-style-type: none"> o 2-D shapes (e.g. rectangles (including squares), circles and triangles) o 3-D shapes (e.g. cuboids (including cubes), pyramids and spheres.) <p>I can describe position, directions and movements, including half, quarter and three-quarter turns</p>
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Year 2 - National Standard

AUT SPR SUM

Number system & Counting	Addition and Subtraction Multiplication and Division	Fractions and decimals	Measurement	Geometry - properties of shape /position & direction	Statistics								
<p>I can count in steps of 2, 3 and 5 from 0, and in tens from any number forward and backward</p> <p>Recognise the place value of each digit in a 2-digit number</p> <p>I can identify, represent and estimate number using different representations including the number line</p> <p>I can compare and order numbers from 0 up to 100; use <, > and = signs</p> <p>I can read and write numbers to at least 100 in numerals and in words</p> <p>I can use place value and number facts to solve problems</p> <p>I can partition numbers in different ways e.g. $23 = 20 + 3$ and $23 = 10 + 13$.</p> <table border="1" data-bbox="73 1273 224 1417"> <tr> <td>●</td> <td>B</td> </tr> <tr> <td>-</td> <td>W</td> </tr> <tr> <td>✓</td> <td>O</td> </tr> <tr> <td>☆</td> <td>OT+</td> </tr> </table>	●	B	-	W	✓	O	☆	OT+	<p>I can solve problems with addition and subtraction:</p> <ul style="list-style-type: none"> o using concrete objects and pictorial representations, including numbers quantities and measures o applying my knowledge of mental and written methods <p>I can add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none"> o A 2-digit number and ones o A 2-digit number and tens o Two 2-digit numbers o Adding three 1-digit numbers <p>I can show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</p> <p>I can recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems</p> <p>I can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>I can calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs</p> <p>I can show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p> <p>I can solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context</p>	<p>I can recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ of a length, shape, set of objects or quantity</p> <p>I can write simple fractions e.g. $1/2$ of 6 = 3 and recognise the equivalence of $2/4$ and $1/2$.</p>	<p>I can choose and use appropriate standard units to estimate and measure length/ height in any direction (m/cm); mass (kg/g); temperature (C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</p> <p>I can compare and order lengths, mass, volume/capacity and record the results using <, > and =</p> <p>I can recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</p> <p>I can find different combinations of coins that equal the same amounts of money</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</p> <p>Compare and sequence intervals of time</p> <p>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.</p> <p>Know the number of minutes in an hour and the number of hours in a day</p>	<p>I can identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line</p> <p>I can identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</p> <p>I can identify 2-D shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid</p> <p>I can compare and sort common 2-D and 3-D shapes and everyday objects</p> <p>I can order and arrange combinations of mathematical objects in patterns</p> <p>I can use mathematical vocabulary to describe position, direction and movement including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise), and movement in a straight line</p>	<p>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables</p> <p>Ask and answer questions by counting the number of objects in each category and sorting the categories by quantity</p> <p>Ask and answer questions about totalling and comparing categorical data</p>
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Year 3 - National Standard

AUT SPR SUM

Number system & Counting Addition and Subtraction	Multiplication and Division	Fractions and decimals	Measurement	Geometry	Statistics
<p>I can read and write numbers up to 1,000 in numerals and in words.</p> <p>I can count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</p> <p>I can recognise the place value of each digit in a 3-digit number (H,T,U)</p> <p>I can compare and order numbers up to 1,000</p> <p>I can identify, represent and estimate numbers using different representations</p> <p>Solve number problems and practical problems involving these ideas</p> <p>I can add and subtract numbers mentally, including: A 3-digit number and ones A 3-digit number and tens A 3-digit number and hundreds</p> <p>I can add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction</p> <p>I can estimate the answer to a calculation and use inverse operations to check answers</p> <p>I can solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p>	<p>Recall and use multiplication and division for the 3,4 and 8 times tables</p> <p>I can write and calculate mathematical statements for multiplication and division using the multiplication facts that they know including TU \times U, using mental and then progressing to formal written methods.</p> <p>I can solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects</p>	<p>I can count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</p> <p>I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</p> <p>I can recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p> <p>I can recognise and show, using diagrams, equivalent fractions with small denominators</p> <p>I can add and subtract fractions with the same denominator within one whole [for example, $+ =$]</p> <p>I can compare and order unit fractions, and fractions with the same denominators</p> <p>I can solve problems that involve all of the above</p>	<p>I can measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p> <p>I can measure the perimeter of simple 2-D shapes</p> <p>I can add and subtract amounts of money to give change, using both \pounds and p in practical contexts</p> <p>I can tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</p> <p>I can estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight</p> <p>I know the number of seconds in a minute and the number of days in each month, year and leap year</p> <p>I can compare durations of events [for example, to calculate the time taken by particular events or tasks.]</p>	<p>Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</p> <p>recognise angles as a property of shape or a description of a turn</p> <p>identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right angle</p> <p>I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p>	<p>I can interpret and present data using bar charts, pictograms and tables</p> <p>I can solve one-step and two-step questions [for example 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables</p>

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✓	O
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Year 4 - National Standard

AUT SPR SUM

Number system & Counting Addition and Subtraction	Multiplication and Division	Fractions and decimals	Measurement	Geometry	Statistics
<p>I can count in multiples of 6, 7, 9, 25 and 1000</p> <p>I can find 1000 more or less than a given number</p> <p>I can count backwards through 0 using negative numbers</p> <p>I can recognise the place value of each digit in a four-digit number (Th, H, T, U)</p> <p>I can compare and order numbers beyond 1000</p> <p>I can round any number to the nearest 10, 100 and 1000.</p> <p>I can identify, represent and estimate numbers using different representations</p> <p>Solve problems and practical problems that involve all of the above and with increasingly large positive numbers</p> <p>I can read Roman numerals to 100 (I to C) and I understand how numbers developed to include 0.</p> <p>I can add and subtract numbers up to 4 digits using formal written columnar methods</p> <p>I can estimate and use inverse operations to check answers to a calculation</p> <p>I can solve addition and subtraction two-step problems in contexts, deciding which operations to use and why</p>	<p>I can recall multiplication and division facts up to 12×12</p> <p>I can use place value, known and derived facts to multiply and divide mentally, including multiplying and dividing by 0 and 1; dividing by 1; multiplying together three numbers</p> <p>I can recognise and use factor pairs and commutativity in mental calculations</p> <p>I can multiply and divide two-digit and three-digit numbers by a one-digit number using a formal written layout</p> <p>I can solve problems involving multiplying and adding, including integer scaling problems and harder correspondence problems such as n objects are connected to m objects</p>	<p>I can recognise and show, using diagrams, families of common equivalent fractions</p> <p>I can count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten</p> <p>I can solve problems involving increasingly harder fractions to calculate quantities and fractions divide quantities, including non-unit fractions where the answer is a whole number</p> <p>I can add and subtract fractions with the same denominator</p> <p>I can recognise and write decimal equivalents of any number of tenths or hundredths</p> <p>I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$</p> <p>I can find the effect of dividing a one- or two- digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths</p> <p>Round decimals with one decimal place to the nearest whole number</p> <p>I can compare and order decimal numbers with up to two decimal places</p> <p>I can solve simple measure and money problems involving fractions and decimals to two d.p.</p>	<p>I can convert between different units of measure (e.g. km to m; hr to min)</p> <p>I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p> <p>I can find the area of rectilinear shapes by counting squares</p> <p>I can read, write and convert time between analogue and digital 12 and 24hr clocks</p> <p>I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</p> <p>I can estimate, compare and calculate different measures, including money in pounds and pence</p>	<p>I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</p> <p>I can identify acute and obtuse angles and compare and order angles up to two right angles (180°) by size</p> <p>I can identify lines of symmetry in 2D shapes presented in different orientations</p> <p>I can complete a simple symmetric figure with respect to a specific line of symmetry</p> <p>I can describe positions on a 2D grids as coordinates in the first quadrant</p> <p>I can describe movements between positions as translations of a given unit to the left/right and up/down</p> <p>I can plot specified points and draw sides to complete a given polygon</p>	<p>I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and line graphs</p> <p>I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</p>

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✓	O
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Number system & Counting Addition and Subtraction	Multiplication and Division	Fractions and decimals	Measurement	Geometry	Statistics								
<p>I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit</p> <p>I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</p> <p>I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers</p> <p>I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</p> <p>I can solve number problems and practical problems that involve all of the above</p> <p>I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals</p> <p>I can add and subtract whole numbers with more than 4 digits using formal columnar addition and subtraction</p> <p>I can add and subtract numbers mentally with increasingly large numbers</p> <p>I can use rounding to check answers to calculations and determine, in the context of the problem, levels of accuracy.</p> <p>I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p>	<p>I can identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers</p> <p>I know and can use the vocabulary of prime numbers, prime factors and composite numbers</p> <p>I can tell whether a number up to 100 is a prime number and recall prime numbers up to 19</p> <p>I can multiply and divide numbers mentally using known facts</p> <p>I can multiply numbers up to 4-digits by a one or 2 digit number using a formal written method, including long multiplication.</p> <p>I can divide numbers up to four-digits by a one-digit number using the formal written method of short division and interpret remainders appropriately according to context</p> <p>I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>I can recognise and use square numbers and cube numbers and their notation</p> <p>I can solve problems using multiplication and division using my knowledge of factors and multiples, squares and cubes</p> <p>I can solve problems using multiplication and division and a combination of these, including understanding the equals sign</p> <p>I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple ratios</p>	<p>I can compare and order fractions whose denominators are multiples of the same number</p> <p>I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements < 1 as mixed numbers e.g. $2/5 + 4/5 = 6/5 = 1\ 1/5$</p> <p>I can add and subtract fractions with the same denominator and multiples of the same number</p> <p>I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p> <p>I can read and write decimal numbers as fractions</p> <p>I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>I can round decimals with two d.p. to the nearest whole number and one d.p.</p> <p>I can solve problems involving number up to three d.p.</p> <p>I can recognise the percent symbol (%) and understand percent means number of parts per hundred and write percentages as a fraction with a denominator 100 and as a decimal</p> <p>I can solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those with a denominator of a multiple of 10 or 25.</p>	<p>I can convert between different units of metric measure (e.g. km and m; cm and m; cm and mm; g and kg; l and ml)</p> <p>I can understand and use equivalences between metric units and common imperial units such as inches, pounds and pints</p> <p>I can measure and calculate the perimeter of composite rectilinear shapes in cm and m</p> <p>I can calculate and compare the area of squares and rectangles including using standard units cm^2 and m^2 and estimate the area of irregular shapes</p> <p>I can estimate volume (e.g. using $1\ cm^3$ clocks to build cubes and cuboids) and capacity (e.g. using water)</p> <p>I can solve problems involving converting between units of time</p> <p>I can use all four operations to solve problems including measure (e.g. length, mass, volume, money) using decimal notation including scaling</p>	<p>I can identify 3D shapes, including cubes and cuboids, from 2D representations</p> <p>I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</p> <p>I can draw given angles and measure them in degrees</p> <p>I can identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and $1/2$ turn (total 180°) other multiples of 90°</p> <p>I can use the properties of rectangles to deduce related facts and find missing lengths and angles</p> <p>I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p> <p>I can identify, describe and represent the position of a shape following a reflection or translation, including the appropriate language, and know that the shape has not changed.</p>	<p>I can solve comparison, sum and difference problems using information presented in line graphs</p> <p>I can complete, read and interpret information in tables, including time tables</p> <table border="1" data-bbox="1995 1273 2145 1417"> <tr> <td>●</td> <td>B</td> </tr> <tr> <td>-</td> <td>W</td> </tr> <tr> <td>✓</td> <td>O</td> </tr> <tr> <td>☆</td> <td>OT+</td> </tr> </table>	●	B	-	W	✓	O	☆	OT+
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Number system & Counting Addition and Subtraction	Multiplication and Division	Fractions and decimals	Geometry	Measurement	Statistics/ Algebra/ Ratio and Proportion
<p>I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit</p> <p>I can round any whole number to a required degree of accuracy</p> <p>I can use negative numbers in context, and calculate intervals across 0</p> <p>I can solve number and practical problems that involve all of the above</p> <p>I can perform mental calculations, including with mixed operations and large numbers</p> <p>I can use my knowledge of the order of operations to carry out calculations involving the 4 operations</p> <p>I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</p>	<p>I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p> <p>I can divide numbers up to 4 digits by a two digit whole number using the formal written method of long division and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context</p> <p>I can perform mental calculations, including with mixed operations and large numbers</p> <p>I can identify common factors, common multiples and prime numbers</p> <p>I can use my knowledge of the order of operations to carry out calculations involving the 4 operations</p> <p>I can multiply one-digit numbers with up to 2 decimal places by whole numbers</p> <p>I can use written division methods in cases where the answer has up to 2 decimal places</p> <p>Solve problems involving multiplication and division which require answers to be rounded to specified degrees of accuracy</p>	<p>I can use common factors to simplify fractions; use common multiples to express fractions in the same denominator</p> <p>I can compare and order fractions, including ≥ 1</p> <p>I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>I can multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)</p> <p>I can divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$)</p> <p>I can associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)</p> <p>I can identify the value of each digit in number given to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places</p> <p>I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p>	<p>I can draw 2-D shapes using given dimensions and angles</p> <p>Recognise, describe and build simple 3-D shapes, including making nets</p> <p>I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</p> <p>I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <p>I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p> <p>I can describe positions on a full co-ordinate grid (all 4 quadrants)</p> <p>I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes</p>	<p>I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate</p> <p>I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit and vice versa, using decimal notation to up to 3 decimal places</p> <p>I can convert between miles and kilometres</p> <p>I can recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>I can recognise when it is possible to use formulae for area and volume of shapes</p> <p>I can calculate the area of parallelograms and triangles</p> <p>I can calculate, estimate and compare volume of cubes and cuboids using standard units including cubic centimetres and cubic metres and extending to other units</p>	<p>I can interpret and construct pie charts and line graphs and use these to solve problems</p> <p>I can calculate and interpret the mean as an average</p> <p>I can use simple formulae</p> <p>I can express missing number problems algebraically</p> <p>I can find pairs of numbers that satisfy an equation with 2 unknowns</p> <p>I can enumerate possibilities of combinations of 2 variables</p> <p>I can generate and describe linear number sequences</p> <p>I can solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts</p> <p>I can solve problems involving similar shapes where the scale factor is known or can be found</p> <p>I can solve problems involving the calculation of percentages (e.g. of measures such as 15% of 360) and the use percentages for comparison</p> <p>I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>

