

At Sutton Primary School, we follow the National Curriculum and a full and frank account of the objectives can be found at the website below.

<https://www.gov.uk/government/collections/national-curriculum>

The tables below outline the key objectives that we feel as a school are key to the children feeling confident when they eventually move onto the next year group, and are able to access the learning without having to play catch up.

There is always a degree of overlap and we ensure within our mixed year groups (Year 3/4 & Year 5/6) that the children achieve the objectives within their year group before moving onto the objectives in the next year group.

	Number				Measure	Geometry		Statistics
	Number & Place Value	Add / Subtract	Multiply / Divide	Fractions		Shapes	Position	
Year 1	-Count to and across 100, forwards and backwards beginning with 0 or 1, or from any given number. -Count, read and write numbers to 100 in numerals. -Count in multiples of 2, 5 & 10.	-Given a number, identify one more and one less -Represent and use number bonds and related subtraction facts within 20. -read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals sign (=).	No key assessment focus in Year 1.	-Recognise, find and name a half as one of two equal parts of an object, shape or quantity.	-Compare, describe and solve practical problems for: length/height; weight/mass; capacity/volume and time. -Tell the time to the hour and half past the hour. -Draw hands on a clock face to show these times.	-Recognise and name common 2D shapes (e.g. square, circle & triangle). -Recognise and name common 3D shapes (e.g. cubes, cuboids, pyramids and spheres).	No key assessment focus in Year 1.	No key assessment focus in Year 1.

	Number				Measure	Geometry		Statistics
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Year 2	-Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and back. -Compare and order numbers from 0 up to 100 using the <, > and = signs.	-Use place value and number facts to solve problems. -Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	-Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. -Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication & division facts including problems in context	-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.	-Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	-Compare and sort common 2D & 3D shapes and everyday objects.	-Use mathematical vocabulary to describe position, direction and movement in a straight lines and distinguishing between rotation as a turn and in terms of right angles for quarter, half and $\frac{3}{4}$ turns.	-Ask and answer questions about totalling and comparing categorical data.

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Year 3	<ul style="list-style-type: none"> -Count from 0 in multiples of 4, 8, 50 and 100. -Recognise the place value in each digit in a three-digit number. 	<ul style="list-style-type: none"> -Add and subtract numbers mentally including HTU + U; HTU + T and HTU + H. -Solve problems involving missing number problems using number facts, place value and more complex addition and subtraction. -Add and subtract numbers with up to three digits using formal written methods of column addition and subtraction. 	<ul style="list-style-type: none"> -Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. -Write and calculate mathematical statements for division using the multiplication tables they know including for two-digit numbers multiplied by one digit methods using mental methods. 	<ul style="list-style-type: none"> -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. -Recognise and show using diagrams, equivalent fractions with small denominators. -Recognise, find and write fractions of a discrete set of objects both unit fractions and non-unit fractions with small denominators. 	<ul style="list-style-type: none"> -Measure, compare, add and subtract lengths (m/cm/mm); mass (g/kg); volume/capacity (l/ml) -Measure the perimeter of simple 2D shapes. -Add and subtract amounts of money to give change, using both pounds and pence in practical contexts. -Tell and write the time from an analogue clock including using 12-hour and 24-hour clock. 	<ul style="list-style-type: none"> -Identify horizontal and vertical lines and pairs of perpendicular and parallel lines 	<ul style="list-style-type: none"> -Identify right angles and recognise that two right angles make a half turn; three right angles make a 3/4 turn and four complete a turn. 	<ul style="list-style-type: none"> -Interpret and present data using bar charts, pictograms and tables.

	Number				Algebra	R & P	Measures	Geometry		Statistics
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Year 4	<ul style="list-style-type: none"> -Count in multiples of 6, 7, 9, 25 and 100. -Count backwards through 0 to include negative numbers. -Order and compare number beyond 1000 -Round any number to the nearest 10, 100 or 1000. 	<ul style="list-style-type: none"> -Solve addition and subtraction problems in contexts deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> -Recall multiplication and division facts for multiplication tables up to 12 x 12. -Multiply two-digit and three-digit numbers by a one-digit number using a formal written layout. 	<ul style="list-style-type: none"> -Count up and down in hundredths. -Recognise that hundredths arise from dividing an object by 100 and dividing tenths by 10. -Recognise and show, using diagrams, families of common equivalent fractions. -Add and subtract fractions with the same denominator. -Round decimals with one decimal place to the nearest whole number. -Solve simple money and measure problems involving fractions and decimals to two decimal places. 	<ul style="list-style-type: none"> No key assessment focus in Year 4. 	<ul style="list-style-type: none"> No key assessment focus in Year 4. 	<ul style="list-style-type: none"> -Convert between different units of measure. 	<ul style="list-style-type: none"> -Compare and classify geometric shapes including quadrilaterals and triangles based on properties and sizes. -Identify lines of symmetry in 2D shapes presented in different orientations. 	<ul style="list-style-type: none"> -Plot specified points and draw sides to complete a given polygon. 	<ul style="list-style-type: none"> -Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

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Year 5	-Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through 0. -Read, write, order and compare numbers up to 1,000,000 and determine the value of each digit.	-Add and subtract numbers mentally with increasingly large numbers. -Add and subtract whole numbers with more than four digits, including using formal written methods.	-Identify multiples and factors, including finding all factors of a number and common factors of two numbers. -Multiply and divide whole and decimal numbers by 10, 100 and 1000. -Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. -Solve problems involving multiplication and division including scaling by simple fractions.	-Recognise mixed numbers and improper fractions and convert from one form to the other. -Compare and order fractions whose denominators are all multiples of the same number. -Read and write decimal numbers as fractions. -Read, write, order and compare numbers with up to three decimal places. -Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.	No key assessment focus in Year 5.	No key assessment focus in Year 5.	-Convert between different units of metric measure. -Measure and calculate perimeter of composite rectilinear shapes in cm and m. -Calculate and compare the areas of rectangles, including using standard units. -Use all four operations to solve problems involving measure using decimal notation including scaling.	-Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	-Draw given angles and measure them in degrees.	-Complete, read and interpret information in tables, including timetables. -Solve comparison, sum and difference problems using information presented in a line graph.

	Number				Algebra	R & P	Measures	Geometry		Statistics
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Year 6	-Use negative numbers in context and calculate intervals across zero. -Round any whole number to a required degree of accuracy.	-multiply multi-digit numbers up to four digits by a two-digit number using the formal written method of long multiplication. -divide numbers up to four digits by a two-digit number using the formal written method of short division, where appropriate, interpreting remainders according to context. -Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. -Use estimation to check answers to calculations and determine, in the context of the problem, an appropriate degree of accuracy. -Use written division methods in cases where the answer has to be up to two decimal places.	-Recall and use equivalence between simple fractions, decimals and percentages. -Solve problems which require answers to be rounded to specified degrees of accuracy.	-Use simple formulae	-Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. -Solve problems involving the calculation of percentages.	-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 three decimal places.	-Compare and classify geometric shapes based on their properties and sizes.	-Find unknown angles in any triangles, quadrilaterals, and regular polygons	-Use pie charts and graphs to solve problems -Interpret pie charts. -Calculate and interpret the mean as an average.	