

Gamston St Peter's CofE Primary School - Maths Progression Grid

Year Group	R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number: Number and Place Value	Children can count reliably with numbers from one to 20.	I can count to and past 100, forwards and backwards starting from any number.	I can count forward and backwards in jumps of 2, 3 and 5 from 0 and in 10's from any number.	I can count from 0 in multiples of 4, 8, 50 and 100 and can find 10 or 100 more or less than a given number.	I can count in multiples of 6, 7, 9, 25 and 1000.	I can read, write, order and compare numbers to at least 1,000,000 (one million) and say the value of each digit.	I can round any number to a required degree of accuracy.
	Children can say which number is one more or one less than a given number.	I can count and read numbers to 100 in numerals.	I can compare and order numbers from 0 to 100 using < > and =.	I can recognise the place value of each digit of a number with hundreds, tens and ones.	I can count backwards through 0 to include negative numbers.	I can use negative numbers in context when looking at temperature or money; counting forwards and backwards through 0.	I can use negative numbers in context when looking at temperature or money, counting forwards and backwards through 0.
	Children can place numbers in order from one to 20 in order.	I can count and write numbers to 100 in numerals.	I can use place value and number facts to answer questions.	I can solve number and word problems.	I can order and compare numbers to the nearest 10, 100 or 1000.		
		I can count in jumps of 2, 5 and 10.			I can round numbers to the nearest 10, 100 or 1000.		
		I can identify one more and less, given a starting number.					

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Number: Addition and Subtraction	Children can use quantities and objects, add and subtract two single-digit numbers and count on or back to find the answer.	I can use number bonds to 20.	I can solve problems with addition and subtraction including those involving numbers, quantities, and measures by using objects or pictures.	I can add and subtract numbers in my head, including a three digit number and ones.	I can solve two step addition and subtraction problems using different methods and explain why I used them.	I can add and subtract numbers with more than 4 digits using written methods.	I can solve problems with more than one step and operation and explain why I used them.
		I can use subtraction facts up to 20.	I can answer simple addition and subtraction questions in my head as well as by writing them down.	I can add and subtract numbers in my head, including three digit numbers and tens.		I can add and subtract two and three digit numbers in my head.	I can use estimation to check answers to calculations and determine an appropriate degree of accuracy.
			I can use addition and subtraction facts to 20 quickly and work out similar facts to 100.	I can add and subtract numbers in my head, including a three digit number and hundreds.		I can solve addition and subtraction problems needing more than one step and work out which operation and method is the most suitable.	

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Number: Multiplication and Division	Children can solve problems, including doubling, halving, and sharing.		I can remember and use multiplication and division facts for the 2, 5 and 10 times table and recognise odd and even numbers.	I can recall and use multiplication and division facts for the 3, 4 and 8 times tables.	I can recall times table facts up to 12 x 12.	I can find multiples and factors of a number and identify factors common to 2 different numbers.	I can multiply numbers of up to 4 digits by a two digit number using a formal written method.
			I can answer questions involving multiplication and division mentally and with objects.	I can calculate multiplication and division problems, both mentally and in writing, using the times tables, including two digit numbers times one digit numbers.		I can solve problems involving multiplication and division, including using factors and multiples, squares and cubes.	I can divide numbers of up to 4 digits by a two-digit number using a formal written method of short division showing remainders, fractions or rounding as appropriate.
			I can answer questions involving multiplication and division using arrays and repeated addition.			I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	I can use estimating to check answers and problem solving.

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Number : Fraction s		I can find and name $\frac{1}{2}$ (half) of an object, shape or amount.	I can find, name and write fractions of a length, shape, set of objects or amount, including $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$.	I can count up and down in tenths and know that tenths are made from dividing an object into 10 equal parts and in dividing one- digit numbers or quantities by 10.	I can recognise and show, using diagrams, families of common equivalent fractions.	I can compare and order fractions whose denominators are all multiples of the same number.	I can use written division methods for numbers with up to two decimal places.
		I can write and find fractions of a set of data and can recognise fractions with small denominators.	I can count up and down in hundredths and know that dividing by 100 creates hundredths and by 10 creates tenths.	I can read and write decimal numbers as fractions such as $0.71 = \frac{71}{100}$.	I can solve problems which require answers to be rounded to specified degrees of accuracy.		
		I can identify and show equivalent fractions.	I can round decimals using tenths to the nearest whole number.	I can read, write, order and compare numbers with up to three decimal places.	I can use equivalences between simple fractions, decimals and percentages to help me solve problems.		
			I can solve simple money and measure problems involving fractions and decimals to two decimal places.	I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.			

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Measurement	Children can use everyday language to talk about size, weight, capacity, to compare quantities and objects to solve problems.	I can solve problems for length and height by telling which objects are longer or shorter/taller or shorter.	I can add and subtract money and give change.	I can measure, compare, add and subtract: lengths (m/cm and mm); mass (kg/g); volume and capacity (l/ml).	I can convert different units of measurement, e.g. I can convert kilometres into metres or hours into minutes.	I can convert between different forms on metric measurement, e.g. kilometre and metre, centimetre and millimetre, gram and kilogram, litre and millilitre.	I can use, read, write and convert between standard units. I can convert measurement of length, mass, volume and time from a smaller unit to a larger unit and vice versa. I can do this using decimal notation up to the three decimal places.
	Children use everyday language to talk about money and to compare quantities and objects to solve problems.	I can solve problems for mass and weights by telling which objects are heavier or lighter.	I can tell the time to 5 minutes including quarter past/to the hour and draw the hands on a clock face to show these times.	I can add and subtract money giving change, using pounds and pence. I can do this with real coins and notes.		I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	
		I can solve problems for capacity and volume by telling if a container is empty, half full or full and if there is more in one container than another.		I can tell the time on a clock face. I can do this if it uses Roman numerals from I to XII and I can use 12 hour or 24 hour clocks.		I can calculate and compare the area of rectangles (including squares), and including standard units, square centimetres (cm ²), square metres (m ²) and estimate the area of irregular shapes.	
		I can solve problems for time. I can tell if something is quicker		I can write the time on a clock face. I can do this if it uses			

		or slower. I can tell if something happened earlier or later.		Roman numerals from I to XII and I can use 12 hour or 24 hour clocks.			
		I can tell what the time is in hours and half past the hour. I can draw these on a clock face.					
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Geometry – Properties of Shape	Children explore characteristics of everyday objects and shapes and use mathematical language to describe them.	I can recognise and name common 2D shapes such as rectangles, squares, circles and triangles.	I can compare and sort common 2D and 3D shapes and everyday objects.	I can spot right angles. I can spot when angles are greater or less than a right angle.	I can compare and classify geometric shapes, including quadrilaterals, and triangles, based on their properties and sizes.	I can draw given angles and measure them in degrees.	I can compare and classify geometric shapes based on their properties and sizes. I can also find unknown angles in any triangles, quadrilaterals or regular polygons.
		I can recognise and name common 3D shapes such as cuboids, cubes, pyramids and spheres.		I know that two right angles make a half turn, three make three quarters of a turn and four make a full turn.			
Geometry – Position and Direction	Children can recognise, create and describe patterns.		I can use mathematical vocabulary to describe position, direction and movement. This could include movement in a straight line.		I can plot points I am given and draw sides to complete a given polygon.		I can draw and translate simple shapes on the coordinate plane and reflect these in the axis.

Statistics			I can ask and answer questions about totalling and comparing grouped data.	I can interpret and present data using bar charts, pictograms and tables.	I can solve comparison, sum and difference problems using information presented in bar charts, tables and other graphs.	I can complete, read and interpret information in tables, including timetables.	I can interpret and construct pie charts and line graphs. I can use these to solve problems.
							I can calculate and interpret the mean as an average.
Ratio and Proportion							I can solve problems involving the calculation of percentages. I can also use percentages for comparisons.
							I can solve problems involving unequal sharing and grouping. I can use my knowledge of fractions and multiples to do this.
Algebra							I can use simple formulae.