

Maths Progression of skills and knowledge				Number and place value		
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number – number and	Number – number and	Number – number and	Number – number and	Number – number and	Number – number and	Number – number and
place value	place value	place value	place value	place value	place value	place value
Pupils should be taught	Pupils should be taught to: - 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 twos, fives and tens - given a number, identify one more and one less - 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, least - read and write numbers from 1 to 20 in numerals and words.	Pupils should be taught to: - count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward - 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 - compare and order numbers from 0 up to 100; use and = signs - read and write numbers to at least 100 in numerals and in words - use place value and number facts to solve problems.	Pupils should be taught to: - count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number - recognise the place value of each digit in a three-digit number (hundreds, tens, ones) - compare and order numbers up to 1000 - identify, represent and estimate numbers using different representations - read and write numbers up to 1000 in numerals and in words - solve number problems and practical problems involving these ideas.	Pupils should be taught to: - count in multiples of 6, 7, 9, 25 and 1000 - find 1000 more or less than a given number - count backwards through zero to include negative numbers - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) - order and compare numbers beyond 1000 - identify, represent and estimate numbers using different representations - round any number to the nearest 10, 100 or 1000 - solve number and practical problems that involve all of the above and with	Pupils should be taught to: - read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit - count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 - interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero - round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 - solve number problems and practical problems that involve all of the above - read Roman numerals to 1000	Pupils should be taught to: - read, write, order and compare numbers up to 10 000 000 and determine the value of each digit - round any whole number to a required degree of accuracy - use negative numbers in context, and calculate intervals across zero - solve number and practical problems that involve all of the above.



- explore the				increasingly large	years written in	
composition to				positive numbers	Roman numerals.	
numbers to 10				- read Roman		
- solve real world				numerals to 100 (I		
mathematical				to C) and know that		
problems with				over time, the		
number up to 5				numeral system		
				changed to include		
				the concept of zero		
				and place value.		
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	Maths Progre	ssion of skills a	nd knowledge	N	Number: addition and subtraction		
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Number – addition and subtraction	Number – addition and subtraction	Number – addition and subtraction	Number – addition and subtraction	Number – addition and subtraction	Number – addition and subtraction	Number – addition and subtraction	
Pupils should be taught to: - automatically recall (without reference to rhymes, counting or other aids) number bonds to 5 (including subtraction facts) and some number bonds to 10, including double facts - explore and represent patterns within numbers to 10, including evens and odds, double facts and how quantities can be distributed evenly	Pupils should be taught to: - read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs - represent and use number bonds and related subtraction facts within 20 - add and subtract one-digit and two-digit numbers to 20, including zero - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9.	Pupils should be taught to: - solve problems with addition and subtraction: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods - recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and ones	Pupils should be taught to: - add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction - estimate the answer to a calculation and use inverse operations to check answers - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	Pupils should be taught to: - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate - estimate and use inverse operations to check answers to a calculation - solve addition and subtraction twostep problems in contexts, deciding which operations and methods to use and why	Pupils should be taught to: - add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) - add and subtract numbers mentally with increasingly large numbers - use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why.	Pupils should be taught to: - perform mental calculations, including with mixed operations and large numbers - use their knowledge of the order of operations to carry out calculations involving the four operations - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why	



and tens and tens two two-digit numbers adding three one- digit numbers show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	 			
- two two-digit numbers - adding three one- digit numbers - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing				
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another cannot - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing		subtraction of one		
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and subtraction and use this to check calculations and solve missing				
and use this to check calculations and solve missing				
check calculations and solve missing				
and solve missing				
		number problems.		



	Maths Progression of skills and knowledge				Number: multiplication and division		
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Number –	Number –	Number –	Number –	Number –	Number –	Number –	
multiplication and	multiplication and	multiplication and	multiplication and	multiplication and	multiplication and	multiplication and	
division	division	division	division	division	division	division	
Pupils should be taught	Pupils should be taught	Pupils should be taught	Pupils should be taught	Pupils should be taught	Pupils should be taught	Pupils should be taught	
to:	to:	to:	to:	to:	to:	to:	
N/A	- solve one-step	- recall and use	- recall and use	 recall multiplication 	 identify multiples 	- multiply multi-digit	
	problems involving	multiplication and	multiplication and	and division facts	and factors,	numbers up to 4	
	multiplication and	division facts for	division facts for	for multiplication	including finding all	digits by a two-digit	
	division, by	the 2, 5 and 10	the 3, 4 and 8	tables up to 12 × 12	factor pairs of a	whole number	
	calculating the	multiplication	multiplication	- use place value,	number, and	using the formal	
	answer using	tables, including	tables	known and derived	common factors of	written method of	
	concrete objects,	recognising odd	 write and calculate 	facts to multiply	two numbers	long multiplication	
	pictorial	and even numbers	mathematical	and divide	- know and use the	- divide numbers up	
	representations	- calculate	statements for	mentally, including:	vocabulary of	to 4 digits by a two-	
	and arrays with the	mathematical	multiplication and	multiplying by 0	prime numbers,	digit whole number	
	support of the	statements for	division using the	and 1; dividing by	prime factors and	using the formal	
	teacher.	multiplication and	multiplication	1; multiplying	composite	written method of	
		division within the	tables that they	together three	(nonprime)	long division, and	
		multiplication tables and write	know, including for two-digit numbers	numbers	numbers	interpret remainders as	
		them using the	times one-digit	- recognise and use	- establish whether a	whole number	
		multiplication (×),	numbers, using	factor pairs and	number up to 100 is prime and recall	remainders,	
		division (÷) and	mental and	commutativity in mental calculations		fractions, or by	
		equals (=) signs	progressing to	- multiply two-digit	prime numbers up to 19	rounding, as	
		- show that	formal written	and three-digit	- multiply numbers	appropriate for the	
		multiplication of	methods	numbers by a one-	up to 4 digits by a	context	
		two numbers can	- solve problems,	digit number using	one- or two-digit	- divide numbers up	
		be done in any	including missing	formal written	number using a	to 4 digits by a two-	
		order	number problems,	layout	formal written	digit number using	
		(commutative) and	involving	- solve problems	method, including	the formal written	
		division of one	multiplication and	involving	long multiplication	method of short	
		number by another	division, including	multiplying and	for two-digit	division where	
		cannot	positive integer	adding, including	numbers	appropriate,	
		- solve problems	scaling problems	using the	- multiply and divide	interpreting	
		involving	and	distributive law to	numbers mentally	remainders	
		multiplication and	correspondence	multiply two digit	drawing upon	according to the	
		division, using	problems in which	numbers by one	known facts	context	



	materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	n objects are connected to m objects	digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	- divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context - multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	 perform mental calculations, including with mixed operations and large numbers identify common factors, common multiples and prime numbers use their knowledge of the order of operations to carry out calculations involving the four operations
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	Maths Progression of skills and knowledge				Number: fractions		
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Reception Number – multiplication and division Pupils should be taught to: N/A				Year 4 Number – multiplication and division (including decimals) Pupils should be taught to: - recognise and show, using diagrams, families of common equivalent fractions - count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten solve problems involving increasingly harder fractions to		1	
			fractions and non- unit fractions with small denominators - recognise and show, using diagrams, equivalent fractions with small denominators - add and subtract fractions with the same denominator within one whole	calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number - add and subtract fractions with the same denominator - recognise and write decimal equivalents	one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5= 1 1/5] - add and subtract fractions with the same denominator and denominators that are multiples	fractions - multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ ×½ = 1/8] - divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]	



[for example, 5/7 +	of any number of	of the same	- associate a fraction
1/7 = 6/7]	tenths or	number	with division and
compare and order	hundredths	- multiply proper	calculate decimal
unit fractions, and	 recognise and write 	fractions and mixed	fraction equivalents
fractions with the	decimal equivalents	numbers by whole	[for example,
same denominators	to ¼ , ½ , ¾	numbers,	0.375] for a simple
solve problems that	- find the effect of	supported by	fraction [for
involve all of the	dividing a one- or	materials and	example, 3/8]
above.	two-digit number	diagrams	- identify the value
	by 10 and 100,	 read and write 	of each digit in
	identifying the	decimal numbers	numbers given to
	value of the digits	as fractions [for	three decimal
	in the answer as	example, 0.71 =	places and multiply
	ones, tenths and	71/100]	and divide numbers
	hundredths	- recognise and use	by 10, 100 and
	- round decimals	thousandths and	1000 giving
	with one decimal	relate them to	answers up to
	place to the	tenths, hundredths	three decimal
	nearest whole	and decimal	places
	number	equivalents	- multiply one-digit
	- compare numbers	- round decimals	numbers with up to
	with the same	with two decimal	two decimal places
	number of decimal	places to the	by whole numbers
	places up to two	nearest whole	- use written division
	decimal places	number and to one	methods in cases
	- solve simple	decimal place	where the answer
	measure and	- read, write, order	has up to two
	money problems	and compare	decimal places
	involving fractions	numbers with up to	- solve problems
	and decimals to	three decimal	which require
	two decimal places.	places	answers to be
	two accimal places.	- solve problems	rounded to
		involving number	specified degrees
		up to three decimal	of accuracy
		places	- recall and use
		- recognise the per	equivalences
		cent symbol (%)	between simple
		and understand	fractions, decimals
		that per cent	and percentages,
		relates to 'number	including in
			different contexts.
		of parts per	unierent contexts.



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				hundred', and write percentages as a	North or making and
				fraction with	Number – ratio and
				denominator 100,	proportion
				and as a decimal	
				 solve problems 	Pupils should be taught
				which require	to:
				knowing	
				percentage and	- solve problems
				decimal equivalents	involving the
				of ½ , ¼ , 1/5 , 2/5	relative sizes of two
				,3/5, 4/5 and	quantities where
				those fractions with	missing values can
				a denominator of a	be found by using
				multiple of 10 or	integer
				25.	multiplication and
					division facts
					- solve problems
					involving the
					calculation of
					percentages [for
					example, of
					measures, and such
					as 15% of 360] and
					the use of
					percentages for
					comparison
					- solve problems
					involving similar
					shapes where the
					scale factor is
					known or can be
					found
					- solve problems
					involving unequal
					sharing and
					grouping using
					knowledge of
					fractions and
					multiples.
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			Number – algebra Pupils should be taught to: - use simple formulae - generate and describe linear number sequences - express missing number problems algebraically - find pairs of numbers that
			 express missing number problems algebraically find pairs of



	Maths Progre	ssion of skills a	nd knowledge			Measurement
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement	Measurement	Measurement	Measurement	Measurement	Measurement	Measurement
Pupils should be taught to: - compare length, weight and capacity	Pupils should be taught to: - compare, describe and solve practical problems for: - lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] - mass/weight [for example, heavy/light, heavier than, lighter than] - capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] - time [for example, quicker, slower, earlier, later] - measure and begin to record the following: - lengths and heights - mass/weight - capacity and volume - time (hours, minutes, seconds) - recognise and	Pupils should be taught to: - 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 - 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	Pupils should be taught to: - measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI) - measure the perimeter of simple 2-D shapes - add and subtract amounts of money to give change, using both £ and p in practical contexts - tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks - estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary	Pupils should be taught to: - Convert between different units of measure [for example, kilometre to metre; hour to minute] - measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres - find the area of rectilinear shapes by counting squares - estimate, compare and calculate different measures, including money in pounds and pence - read, write and convert time between analogue and digital 12- and 24-hour clocks - solve problems involving converting from hours to minutes; minutes to seconds; years to	Pupils should be taught to: - convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) - understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints - measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres - calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square	Pupils should be taught to: - solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate - 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 - convert between miles and kilometres - recognise that shapes with the same areas can have different perimeters and vice versa - recognise when it is
	- recognise and know the value of	money	such as o'clock,	seconds; years to	metres (m2) and	possible to use



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different denominations of coins and notes sequence events in	- solve simple problems in a practical context involving addition	a.m./p.m., morning, afternoon, noon and midnight	months; weeks to days	estimate the area of irregular shapes - estimate volume [for example, using	formulae for area and volume of shapes - calculate the area
chronological order using language [for example, before and after, next, first, today,	and subtraction of money of the same unit, including giving change - compare and	- know the number of seconds in a minute and the number of days in each month, year		1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using	of parallelograms and triangles - calculate, estimate and compare volume of cubes
yesterday, tomorrow, morning, afternoon and evening]	sequence intervals of time - tell and write the time to five	and leap year - compare durations of events [for example to		water] - solve problems involving converting	and cuboids using standard units, including cubic centimetres (cm3)
- recognise and use language relating to dates, including days of the week, weeks, months and years	minutes, including quarter past/to the hour and draw the hands on a clock face to show these times	calculate the time taken by particular events or tasks].		between units of time - use all four operations to solve problems involving measure [for	and cubic metres (m3), and extending to other units [for example, mm3 and km3].
- tell the time to the hour and half past 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.			example, length, mass, volume, money] using decimal notation, including scaling.	



Progression of skills and knowledge				Geometry: properties of shapes			
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Geometry: properties of shapes	Geometry: properties of shapes	Geometry: properties of shapes	Geometry: properties of shapes	Geometry: properties of shapes	Geometry: properties of shapes	Geometry: properties of shapes	
Pupils should be taught to: - talk about 2D and 3D shapes - select, rotate and manipulate shapes in order to develop spatial reasoning skills - compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can	Pupils should be taught to: - recognise and name common 2-D and 3-D shapes, including: - 2-D shapes [for example, rectangles (including squares), circles and triangles] - 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	Pupils should be taught to: - 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] - compare and sort common 2-D and 3-D shapes and everyday objects	Pupils should be taught to: - draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them - recognise angles as a property of shape or a description of a turn - identify right angles, recognise that two right angles make a halfturn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle - identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	Pupils should be taught to: - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes - identify acute and obtuse angles and compare and order angles up to two right angles by size - identify lines of symmetry in 2-D shapes presented in different orientations - complete a simple symmetric figure with respect to a specific line of symmetry.	Pupils should be taught to: - identify 3-D shapes, including cubes and other cuboids, from 2-D representations - know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles - draw given angles, and measure them in degrees (°) - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and 2 1 a turn (total 180°) - other multiples of 90° - use the properties of rectangles to deduce related facts and find missing lengths and angles - distinguish between regular and irregular polygons based on reasoning about	Pupils should be taught to: - draw 2-D shapes using given dimensions and angles - recognise, describe and build simple 3-D shapes, including making nets - compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons - illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius - recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	



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Maths Progression of skills and knowledge				Geometry: position and direction		
Reception Geometry: position and direction	Year 1 Geometry: position and direction	Year 2 Geometry: position and direction	Year 3 Geometry: position and direction	Year 4 Geometry: position and direction	Year 5 Geometry: position and direction	Year 6 Geometry: position and direction
Pupils should be taught to: - understand position through words alone 'under' 'in front of' and 'behind' - draw information from a simple map - continue, copy and create repeating patterns	Pupils should be taught to: - describe position, direction and movement, including whole, half, quarter and three quarter turns.	Pupils should be taught to: - order and arrange combinations of mathematical objects in patterns and 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 anticlockwise).	Pupils should be taught to: N/A	Pupils should be taught to: - describe positions on a 2-D grid as coordinates in the first quadrant - describe movements between positions as translations of a given unit to the left/right and up/down - plot specified points and draw sides to complete a given polygon.	Pupils should be taught to: - identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	Pupils should be taught to: - describe positions on the full coordinate grid (all four quadrants) - draw and translate simple shapes on the coordinate plane, and reflect them in the axes.



Progression of skills and knowledge			Statistics			
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Statistics	Statistics	Statistics	Statistics	Statistics	Statistics	Statistics
Pupils should be taught to: N/A	Pupils should be taught to: N/A	Pupils should be taught to: - 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.	Pupils should be taught to: - interpret and present data using bar charts, pictograms and tables - 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.	Pupils should be taught to: - interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Pupils should be taught to: - solve comparison, sum and difference problems using information presented in a line graph - complete, read and interpret information in tables, including timetables.	Pupils should be taught to: - interpret and construct pie charts and line graphs and use these to solve problems - calculate and interpret the mean as an average.