Mathematics Curriculum Coverage and Progression

Reception	Year 1	Year 2	Year 3	Year 4
Number	Number	Number	Number and Place Value	Number and Place Value
40-60 months	To count, read and write numbers to 100	To count, read and write numbers, in figures and	Count from 0 in multiples of: 4, 8, 50 and 100.	Count in multiples of 6, 7,9,25
Recognise some numerals of personal significance.	To count in 2s, 5s and 10s and to continue	words to 1000.	Find more/less than a given number (and 100	Count back and up in different
Recognises numerals 1 to 5.	number patterns using these multiples.	To recognise odd and even numbers.	more/less).	2,3,4,6 and negative numbers.
Counts up to three or four objects by saying one	Identify and represent numbers using a variety of	To recognise place value to 1000 and to	Recognise place value for 4 digit numbers.	Recognise place value of each
number name for each item.	representations, e.g. number lines and place	compare and order numbers up to 100. To use <,	Compare and order numbers up to 100.	number and be able to order the
Counts actions or objects which cannot be moved.	value resources to 100.	>, =	Read and write numbers up to 1000.	Problem solving – using differe
Counts objects to 10, and beginning to count beyond	Addition and Subtraction	Represent and estimate numbers, including on a	Solve problems and practical problems involving	with varied numbers.
10.	Write and solve 1-step addition and subtraction	number line.	the objectives above.	Round numbers to 10, 100 and
Counts out up to six objects from a larger group.	problems.	Addition and Subtraction	Addition and Subtraction	Addition and Subtraction
Selects the correct numeral to represent 1 to 5, then 1 to 10 objects.	Read, write and solve calculations involving +, - and =	Fluently recall number facts to 20, using + and – with confidence.	 + and – numbers mentally, including: 3 digit numbers and one 	Addition and subtraction to 4 d estimations use inverse operation
Counts an irregular arrangement of up to ten objects.	Add and subtract using a number line, using	+ and – using familiar (not formal) strategies for	 3 digit numbers and tens 	answers.
Estimates how many objects they can see and checks	mental recall to 20.	numbers up to 4 digits. To move into using more	 3 digit numbers and tens 3 digit numbers and hundreds 	Solve 2 step problems.
by counting them.	Recall and state number bonds to 10/20.	formal strategies, including a number line (to	Add and subtract using column method for	Multiplication and Division
Uses the language of 'more' and 'fewer' to compare	Number bonds within 10 (and using this for	represent and record calculation).	numbers up to 3 digits.	Recall multiplication facts to 12
two sets of objects.	number bonds to 20) e.g. $3 + 4 = 7$, $13 + 14 = 27$	To understand the inverse relationship.	Use the inverse relationship and use it to check	To solve problems using facts
Finds the total number of items in two groups by	Secure understanding of the symbols $+, -, =$	Multiplication and Division	answers.	To use a formal format to mult
counting all of them.	Use inverse operations to solve problems.	Recall and use x and ÷ facts for 2,3, 5 and 10	Multiplication and Division	numbers by a single digit num
Says the number that is one more than a given	Solve missing number problems.	times tables and apply to problems in a context	Quick recall and use of multiplication/division	To use known facts e.g. 2x3 =
number.	Practical solving using objects, pictures,	Record using $x_1 \div and =$	facts (2, 3, 4, 5, 8 and 10s).	etc
Finds one more or one less from a group of up to five	numbers. To use talk partners to explain how	Show that x can be done in any order and ÷	Calculate multiplication and division using known	Fractions
objects, then ten objects.	they got to the answer.	cannot.	facts (including 2 digit by 1 digit) using mental	Equivalent fractions of commo
In practical activities and discussion, beginning to use	Multiplication and Division	Fractions	methods and beginning to use written methods.	Counting up and down in hunc
the vocabulary involved in adding and subtracting.	Understanding the symbols x and ÷	Recognise, name and write fractions 1/3, 1/4, 1/2, 3/4	Solve a range of problems using multiplication	recognise that hundredths aris
Records, using marks that they can interpret and	Solving problems using objects, pictorial rep and	in a variety of contexts.	and division.	object by one hundred and div
explain.	array.	Write simple fractions of numbers and recognise	Fractions	Solve problems – to calculate
Begins to identify own mathematical problems based	Using inverse operations.	simple equivalence.	Understand and use tenths (as parts of numbers	Add and subtract fractions with
on own interests and fascinations.	Making connections between arrays, number	Count in fractions (count in 3s to show link with	or quantities or objects).	denominator.
Early Learning Goal	patterns, 2, 5s and 10s.	$1/_{3}$	Recognise, find and write unit fractions and non-	Begin to write decimals equiva
Children count reliably with numbers from one to 20, place them in order and say which number is one more	Fractions	Connect fractions to division.	unit fractions with small denominators of a set of objects.	numbers up to 2 places and fra
or one less than a given number. Using quantities and	Recognise a ½ and ¼, find and name as part of an object, shape or quantity.	Measurement To choose and use appropriate standard units to	Recognise and show, using diagrams, equivalent	Measure Convert different units of meas
objects, they add and subtract two single-digit numbers	Halving even numbers up to and including 20.	estimate and measure length/height in any	fractions with small denominators.	Calculate the perimeter of sha
and count on or back to find the answer. They solve	Recognise connections between halves and	direction.	Add and subtract fractions with the same	Find area of rectangular shape
problems, including doubling, halving and sharing.	quarters.	Using the correct unit of measurement and	denominator.	squares.
Shape, space and measure	Measurement	equipment to solve problems involving capacity,	Solve problems that involve fractions.	Estimate, compare and calcula
40-60 months	Measure and record quantities using m/cm, g/kg,	mass and temperature.	Measurement	measure including money.
Beginning to use mathematical names for 'solid' 3D	l/ml.	To compare and order lengths, mass, volume/	Measure, compare, add and subtract: length (m,	Read, write and convert analo
shapes and 'flat' 2D shapes, and mathematical terms to	Measure and record time using hours, minutes	capacity and record results using <, > and =	cm, mm); mass (kg/g); volume/ capacity (I, ml).	time.
describe shapes.	and seconds.	Recognise and use symbols for pounds £, pence;	Measure the perimeter of 2D shapes.	Solve time problems.
Selects a particular named shape.	Compare quantities using size (greater, less,	combine coins to make a value/or the same	Add and subtract amounts of money (and give	Recognise the concept of sym
Can describe their relative position such as 'behind' or	more, fewer etc).	amounts.	change).	Geometry
'next to'.	Recognise order and understand the value of	Tell and write the time to 5 minutes, including	Tell time from analogue clock (including 12 & 24	Compare and classify geometry
Orders two or three items by length or height.	coins and notes	past/to the hour (including drawing hands onto a	hour clocks).	Identify acute and obtuse angl
Orders two items by weight or capacity.	Sequence events in chronological order including	clock face). To also be able to compare and	Estimate and read time to the nearest 5 minutes.	Identify lines of symmetry in 21
Uses familiar objects and common shapes to create	dates – days of the week/month.	sequence intervals of time including knowing the	Know the number of seconds in a minute, days in	Identify and calculate position
and recreate patterns and build models.	Geometry	number of minutes in an hour and the hours in a	a month (and year/leap year).	Describe positions on a 2D gri
Uses everyday language related to time.	Recognise and name common 2D and 3D	day.	Geometry	coordinates, plot points and de
Beginning to use everyday language related to money.	shapes.	To solve problems in a practical context.	Recognise parallel and perpendicular lines	Statistics
Orders and sequences familiar events.	To understand properties of a shape. To begin to	Geometry	Recognise and understand the angles of 2D and	Interpret and present discrete
Measures short periods of time in simple ways.	use the appropriate language to describe.	Identify, compare, sort and describe the	3D shapes.	data using graphical methods.
Early Learning Goal	To describe motion of objects using directions (forward, backward, left, right, up, down),	properties of 2D and 3D shapes. To recognise 2D shapes on the surface of a 3D	Understand position and direction.	Solve pictograms, tables and o
Children use everyday language to talk about size, weight, capacity, position, distance, time and money to	distance and rotation (in full and half turns.	shape.	Statistics	
compare quantities and objects and to solve problems.	מוסנמווסט מווט וסנמנוסוד (וודדעון מווט וזמו נעודוס.	To arrange combinations of mathematical objects	Interpret and present data using bar charts, pictograms and tables	
They recognise, create and describe patterns. They		in patterns and sequences.	Use above skills to solve problems involving	
explore characteristics of everyday objects and shapes		To use mathematical language to describe	statistics, including ordering and answering	
and use mathematical language to describe them.		position, direction and movement and	questions about data.	
and all the manufactures is any surger to dependent month		distinguishing between rotation as a turn and in		·
		terms of right angle for $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.		

Statistics Interpret and construct pictograms, tally charts, block diagrams and simple tables

Ask and answer questions about totalling,

comparing and sorting categories by quantities.

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4 digits including erations to check

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Year 5
Number and Place Value
Read, write, order and round numbers up to 1,000,000.
Interpret negative numbers by counting forwards and backwards through zero.
Solve linear number sequences/rules.
Roman numerals to M.
Solve number and practical problems.
Addition and Subtraction
Solve + and – multistep problems.
Formed written methods > 4 digits.
Adding and subtracting numbers mentally
(including larger numbers).
Rounding to check.
Multiplication and Division
Solve problems involving multiplication and
division. Including scaling /simple rates and reminders in context.
Understand and use properties of number (multiple, factor/prime etc).
Formal short and long written methods (up to ThHTU x TU).
Mental methods using known facts.
Multiply and divide by 10,100, 100 including
decimals.
Equal sign to indicate equivalence.
Fractions and Decimals
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Interpret and use information on a line graph. Complete/read/interpret/tables/timetables.