

Progression in Number Small Steps

	RECEPTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4
PLACE VALUE AND NUMBER	<p>Count up to three or four objects by saying one number name for each item</p> <p>Count actions or objects that cannot be moved</p> <p>Recognise numerals 1-5</p> <p>Select the correct numeral to represent 1-5</p> <p>Compare quantities of identical objects</p> <p>Compare quantities of non-identical objects</p> <p>Count objects to 10, and begin to count beyond 10</p> <p>Count an irregular arrangement of up to ten objects</p> <p>Say the number that is one more</p> <p>Find one more or less from a group of up to ten objects</p> <p>Count out up to six objects from a larger group</p> <p>Compare groups up to 10</p> <p>Use the language of 'more' and 'fewer' to compare two sets of objects</p> <p>Count reliably to 20, place numbers in order and say which number is one more or one less</p>	<p>Sort objects</p> <p>Count objects Count objects from a larger group</p> <p>Represent objects</p> <p>Recognise numbers as words</p> <p>Count on from any number 1 more</p> <p>Count backwards within 10 1 less</p> <p>Compare groups by matching Fewer, more, same Less than, greater than, equal to</p> <p>Compare numbers</p> <p>Order objects and numbers</p> <p>The number line</p> <p>Count forwards and backwards and write numbers to 20 in numerals and words</p> <p>Numbers from 11-20</p> <p>Tens and ones</p> <p>Count one more and one less</p> <p>Compare groups of objects</p> <p>Compare numbers</p> <p>Order groups of numbers</p> <p>Order numbers</p> <p>Represent numbers to 50 using tens and ones</p> <p>One more one less</p> <p>Compare objects and numbers within 50</p> <p>Order numbers within 50</p> <p>Count in 2s and 5s</p> <p>Count forwards and backwards within 100</p> <p>Partition numbers</p> <p>Compare and order numbers</p> <p>One more, one less</p>	<p>Numbers to 20</p> <p>Count objects to 100 by making 10s</p> <p>Recognise tens and ones</p> <p>Use a place value chart</p> <p>Partition numbers to 100</p> <p>Write numbers to 100 in words</p> <p>Flexibly partition numbers to 100</p> <p>Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100</p> <p>Estimate numbers on a number line</p> <p>Compare objects</p> <p>Compare numbers</p> <p>Order objects and numbers</p> <p>Count in 2s, 5s and 10s</p> <p>Count in 3s</p>	<p>Represent numbers to 100</p> <p>Partition numbers to 100</p> <p>Number line to 100</p> <p>Hundreds</p> <p>Represent numbers to 1,000</p> <p>Partition numbers to 1,000</p> <p>Flexible partitioning of numbers to 1000</p> <p>Hundreds, tens and ones</p> <p>Find 1, 10 or 100 more or less</p> <p>Number line to 1,000</p> <p>Estimating on a number line to 1,000</p> <p>Compare numbers to 1,000</p> <p>Order numbers to 1,000</p> <p>Count in 50s</p>	<p>Represent numbers to 1,000</p> <p>Partition numbers to 1,000</p> <p>Number line to 1,000</p> <p>Thousands</p> <p>Represent numbers to 10,000</p> <p>Partition numbers to 10,000</p> <p>Flexible partitioning of numbers to 10,000</p> <p>Find 1, 10, 100, 1,000 more or less</p> <p>Number line to 10,000</p> <p>Estimate on a number line to 10,000</p> <p>Compare numbers to 10,000</p> <p>Order numbers to 10,000</p> <p>Roman numerals</p> <p>Round to the nearest 10</p> <p>Round to the nearest 100</p> <p>Round to the nearest 1,000</p> <p>Round to the nearest 10, 100 or 1,000</p>

ADDITION AND SUBTRACTION

Sorting into groups
 Say the number that is one more or less to 5
 Find one more
 Find one less
 Find the total number of items in two groups by counting all of them
 Say the number that is one more than any number
 Find one more or one less from a group of up to 5 objects
 In practical activities and discussion, is beginning to use the vocabulary involved in adding and subtracting
 Record, using marks that they can interpret and explain
 Combine two groups to find the whole
 Find pairs with a total of 6 or 7
 In practical activities and discussion, begin to use the vocabulary involved in adding and subtracting
 Find number bonds to 10 using a ten frame
 Find number bonds to 10 using a part-whole model
 Begin to subtract by guessing how many are hiding
 Record, using marks that they can interpret and explain
 Add 1,2 or 3 to any number to 10 by counting on
 Taking away by counting back
 Find doubles to 5 +5

Introduce parts and wholes
Part-whole model
 Write number sentences Fact families - addition facts
 Number bonds within 10
 Systematic number bonds within 10
 Number bonds to 10
 Addition - add together
 Addition - add more
 Addition problems
 Find a part Subtraction - find a part
 Fact families - the eight facts
 Subtraction - take away/crossing out (How many left?)
 Subtraction - take away (How many left?)
 Subtraction on a number line
 Add or subtract 1 or 2
 Add by counting on
 Find and make number bonds
 Add by making 10
 Subtraction including crossing 10
 Related facts
 Compare number sentences

Bonds to 10
 Fact families – addition and subtraction bonds within 20
 Related facts
 Bonds to 100 (tens)
 Add and subtract 1s
 Add by making 10
 Add three 1-digit numbers
 Add to the next 10
 Add across a 10
 Subtract across 10
 Subtract from a 10
 Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less
 Add and subtract 10s
 Add two 2-digit numbers (not across a 10)
 Add two 2-digit numbers (across a 10)
 Subtract two 2-digit numbers (not across a 10)
 Subtract two 2-digit numbers (across a 10)
 Mixed addition and subtraction
 Compare number sentences
 Missing number problems

Apply number bonds within 10
 Add and subtract 1s
 Add and subtract 10s
 Add and subtract 100s
 Spot the pattern
 Add 1s across a 10
 Add 10s across a 100
 Subtract 1s across a 10
 Subtract 10s across a 100
 Make connections
 Add two numbers (no exchange)
 Subtract two numbers (no exchange)
 Add two numbers (across a 10)
 Add two numbers (across a 100)
 Subtract two numbers (across a 10)
 Subtract two numbers (across a 100)
 Add 2-digit and 3-digit numbers
 Subtract a 2-digit number from a 3-digit number
 Complements to 100
 Estimate answers
 Inverse operations
 Make decisions

Add and subtract 1s, 10s, 100s and 1,000s
 Add up to two 4-digit numbers - no exchange
 Add two 4-digit numbers - one exchange
 Add two 4-digit numbers– more than one exchange
 Subtract two 4-digit numbers - no exchange
 Subtract two 4-digit numbers - one exchange
 Subtract two 4-digit numbers – more than one exchange
 Efficient subtraction
 Estimate answers
 Checking strategies

<p style="text-align: center;">MULTIPLICATION AND DIVISION</p>	<p>Count in 1s and 10s to 100 Double numbers to 5 +5 Solve practical problems involving halving and sharing Use practical resources to find odd and even numbers</p>	<p>Count in 2s, 5s, 10s Make and add equal groups Make arrays Make doubles Make equal groups-grouping and sharing</p>	<p>Make and add equal groups Make arrays Recognise, make and add equal groups Multiplication sentences using x symbol Multiplication sentences from pictures Use arrays Make doubles 2,5, and 10 times table Make equal groups-sharing and grouping Divide by 2 Odd and even numbers Divide by 5 and 10</p>	<p>Divide by 3 The 3 times-table Multiply by 4 Divide by 4 The 4 times-table Multiply by 8 Divide by 8 The 8 times-table The 2, 4 and 8 times-tables Consolidate 2,4 and 8 times tables Compare statements Related calculations Multiply and divide 2 digit by 1 digit Scaling How many ways?</p>	<p>Multiples of 3 Multiply and divide by 6 6 times-table and division facts Multiply and divide by 9 9 times-table and division facts The 3, 6 and 9 times-tables Multiply and divide by 7 7 times-table and division facts 11 times-table and division facts 12 times-table and division facts Multiply by 1 and 0 Divide by 1 and itself Multiply three numbers Factor pairs Efficient multiplication Written methods Multiply 2 digits by 1 digit Multiply 3 digits by 1 digit Divide 2 digits by 1 digit</p>
<p style="text-align: center;">FRACTIONS AND DECIMALS</p>		<p>Find halves and quarters</p>	<p>Make equal parts Recognise and find half and quarter Recognise and find one third Unit and non-unit fractions Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ Find three-quarters Count in fractions</p>	<p>Make equal parts Recognise and find half, quarter and third Unit and non-unit fractions Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ Count in fractions Making the whole Count in tenths Tenths as decimals Fractions on a number line Fractions of a set of objects Equivalent fractions Compare and order fractions Add and subtract fractions</p>	<p>Unit and non-unit fractions Tenths –count in tenths Equivalent fractions Fractions greater than 1 Count in fractions Add fractions Add 2 or more fractions Recognise tenths and hundredths Tenths as decimals Tenths on a place value grid and number line Divide 1 then 2 digits by 10 Hundredths as decimals Hundredths on a place value grid Divide 1 or 2 digits by 100 Bonds to 10 and 100 Make a whole Write, compare and order decimals Round decimals Halves and quarters</p>

Progression in Measurement Small Steps

	<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
Length and Height	Order two or three items by length or height	Compare lengths and heights Measure length	Compare lengths and heights Measure lengths in cm and m Compare and order lengths Four operations with lengths	Measure length (m) Equivalent lengths m, cm and mm Compare lengths Add and subtract lengths	Equivalent lengths-m and cm, mm and cm Kilometres Add lengths Subtract lengths
Perimeter and Area				Measure and calculate perimeter	What is area? Counting squares Making shapes Comparing area Measure perimeter Perimeter on a grid Perimeter or rectangles and rectilinear shapes
Weight and Volume	Order two items by weight or capacity	Introduce weight and mass Measure and compare mass Introduce capacity and volume Measure capacity and volume			
Mass, Capacity and Temperature	Order two items by weight or capacity			Introduce weight and mass Measure and compare mass Measure mass in grams Introduce capacity and volume Measure capacity Compare volume Millilitres and litres Temperature	Compare and measure mass Add and subtract mass Compare volume Measure and compare capacity Add and subtract capacity Temperature
Money			Recognise coins and notes Count in coins	Recognise coins and notes Count money-pence and pounds Select money Make the same amount Compare money Find the total, difference, change Two step problems	Convert pounds and pence Add and subtract money Give change
				Convert pounds and pence Add and subtract money Give change	Pounds and pence Ordering money Estimating money Convert pounds and pence Add and subtract money Find change Four operations

Time	Use everyday language related to time Order and sequence familiar events Measure short periods of time	Before and after Dates Tell time to the hour and half hour Compare time	Tell time to the hour and half hour clock and half past Quarter past and quarter to Tell time to 5 minutes Hours and days Find and compare durations of time	Clock, half past, quarter to and quarter past Months and years Hours in a day Telling the time to 5 minutes and the minute Using am and pm 24 hour clock Find and compare durations Start and end times Measuring time in seconds	Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24 hour clock Hours, minute and seconds Years, months, weeks and days Analogue to digital-12 hour and 24 hour
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Progression in Geometry and Statistics Small Steps

	<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
<u>Geometry – Shapes and patterns</u>	Begin to use mathematical names for solid 3D shapes and flat 2D shapes Use mathematical terms to describe shapes Select a particular named shape Use familiar objects and common shapes to create and recreate patterns and build models Describe their relative position such as 'behind' or 'next to' Make simple patterns Explore more complex patterns Continue a repeating pattern with three colours/shapes/objects Recognise and create symmetrical patterns Make simple patterns	Recognise and name 3-D shapes Sort 3-D shapes Recognise, name and sort 2-D shapes Make patterns with 2-D and 3-D shapes	Recognise 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes Draw 2-D shapes Lines of symmetry on shapes Use lines of symmetry to complete shapes Sort 2-D shapes Count faces on 3-D shapes Count edges on 3-D shapes Count vertices on 3-D shapes Sort and make patterns with 2D and 3-D shapes	Turns and angles Right angles in shapes Compare angles Draw accurately Horizontal, vertical, parallel and perpendicular Recognise and describe 2D and 3D shapes Make 3D shapes	Turns and angles Right angles in shapes Compare, identify and order angles Recognise and describe 2-D shapes Triangles and quadrilaterals Horizontal and vertical Lines of symmetry Complete a symmetrical figure
<u>Geometry – Position and direction</u>		Describe turns and position	Describe position, movement and turns Make patterns with shapes		Describe a position Draw on a grid Move on a grid Describe movement on a grid
<u>Statistics</u>			Make tally charts Draw and interpret pictograms (1-1) Draw and interpret pictograms (2,5 and 10) Block diagrams	Make tally charts Draw and interpret pictograms (2,5 and 10) Pictograms, bar charts, tables	Interpret charts Comparison, sum and difference Introduce line graphs

