

Cardinality		Stable Order		Correspondence	
Abstraction		Order Irrelevance		Spatial Reasoning	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	<ul style="list-style-type: none">Knowing that the last number reached when counting tells you how many there are in total<ul style="list-style-type: none">Say one number for each item in orderDiscuss routes and locations using language such as ‘in front of’ and ‘behind’<ul style="list-style-type: none">Describe a familiar route						
	Establishing everyday routines which are rich in Mathematics <i>Introduction of self-registration</i>	Becoming aware of number names (1-5) through their enjoyment of action rhymes and songs involving number (Begin now and continue throughout the year)	Sorting objects into child chosen groups Opportunities to sort by colour, size and shape	Sorting into groups with a given criteria Beginning to review and compare groups	Saying one number for each item in order (Key Assessment point - 1-3)	Conservation: Knowing that the number does not change if items are rearranged	Revisiting and Recapping Autumn 1 Learning <i>Assessment table completed</i>
Autumn 2	<i>Roads, routes and positional</i> language Children will be given opportunities to create routes big enough to direct themselves and friends around.	<i>Track Games</i> Knowing that the last number counted gives the total so far	<i>Conservation</i> Knowing that the number does not change if items are rearranged	Spatial awareness: Experiencing different viewpoints and developing spatial vocabulary	Saying one number for each item in order (Key Assessment point - 1-3)	Revisiting and Recapping Autumn Learning <i>Assessment table completed</i>	
Spring 1	<ul style="list-style-type: none">Compare quantities using language: ‘more than’, ‘fewer than’Fast recognition of up to 3 objects without having to count them (subitising)<ul style="list-style-type: none">Recite numbers past 5Talks about and identifies the patterns around themUnderstand position through words alone e.g. ‘The bag is under the table’Make comparisons between objects relating to size, length, weight and capacity<ul style="list-style-type: none">Combines shapes to make new ones						
	Saying number words in sequence <i>embedding counting into daily routine</i>	<i>Dots, dominoes, dice</i> Recognising up to three objects without counting	<i>All at once fingers</i> Representing numbers using fingers without counting	Developing shape awareness through construction	Counting items that cannot be seen, touched or moved	<i>Spotting numerals</i> Where do we see numbers at home, in Nursery and out and about	Revisiting and Recapping Spring 1 Learning <i>Assessment table completed</i>
Spring 2	Identifying groups with the same number of things	More than/less than	Saying number words in sequence starting from different counting points	<i>Numerosity of counting</i> : Does size impact how many?	<i>Ladybird ladybird</i> : Identifying smaller numbers within a number (<i>for example, this lady bird has 6 dots, 4 on this wing and 2 on this wing</i>)		Revisiting and Recapping Spring Learning <i>Assessment table completed</i>
Summer 1	<ul style="list-style-type: none">Links numerals and amounts e.g. showing the right number of objects to match the numeral up to 5<ul style="list-style-type: none">Extends and creates ABAB patternsNotice and correct and error in a repeating patternBegin to describe a sequence of events, real or fictional using words such as ‘first...then’Talk about and explore 2D and 3D shapes (circles, rectangles, triangles and cuboids)Use informal and mathematical language: ‘sides’, ‘corners’, ‘straight’, ‘rounds’ and ‘flat’<ul style="list-style-type: none">Selects shapes appropriately and with a purpose						
	Identifying similarities between shapes	2D shapes	3D Shapes		Pattern spotting around us Continuing and copying AB patterns Creating AB patterns	Spotting errors within AB patterns Continuing patterns which end mid-unit	Revisiting and Recapping Summer 1 Learning <i>Assessment table completed</i>
Summer 2	Pattern spotting Introducing growing patterns	Creating, extending and exploring patterns (Including frame patterns)					Revisiting and Recapping Summer Learning <i>Assessment table completed</i>



Maths | Curriculum Mapping

Reception

Subitising		Cardinality		Composition	
Comparison		Progression			

	Term 1				Term 2			
Autumn	Number Regularly and reliably subitise numbers up to 3 Counts objects, actions and sounds Link the number symbol (numeral) with it’s cardinal number value Numerical Patterns Verbally count to 10 Spatial Awareness Select, rotate and manipulate shapes in order to develop spatial reasoning skills Compose and decompose shapes recognising that shapes can have other shapes within them just as number can							
Mastering Number	Subitising Numbers up to 3 Patterns for numbers within 4 In contexts	Cardinality, ordinality and counting Counting to cardinality Rhyme and song 1:1 correspondence Anything can be counted	Composition All numbers made of 1s Compose withing 4	Comparison Sets compared according to attributes More than/fewer than Compare by looking	Subitising Within 5	Cardinality, ordinality and counting Cardinality of 5 Count beyond 5 Recognise numerals and relate	Composition Wholes and parts Composition withing 5	Comparison Compare by subitizing and matching
Spring	Number Compare numbers using vocabulary including ‘more than’, ‘less than’, ‘fewer’, ‘the same as’ and ‘equal to’ Distribute items equally e.g. put 3 cakes on each plate Understand the ‘one more than/one less than’ relationship between consecutive numbers Numerical Patterns Verbally count beyond 10 Explore the composition of numbers to 10 Explore number bonds for numbers 0-10 Spatial Awareness Show awareness of 3D shapes having different appearances from different angles Explore, create and discuss maps of small and large areas							
Mastering Number	Subitising Patterns withing 5 Structured and random arrangements 1 more	Cardinality, ordinality and counting Begin to count to 20 Object counting – accuracy Use fingers to represent 5 – 10 Order numbers	Composition Composition of 5 including missing and hidden parts Composition of 6 Numbers withing in 10 can be composed of ‘5 and a bit’	Comparison Compare sets using language and playing games Equal and unequal sets	Subitising Symmetrical patterns and linking to doubles	Cardinality, ordinality and counting Larger numbers withing 10 Explore counting pattern beyond 20	Composition Odd and even numbers Even numbers and doubles Composition of numbers withing 10	Comparison Reason about which numbers are ‘more’
Summer	Number Have a deep understanding of number to 10, including the composition of each number Subitise (recognise quantities without counting) up to 5; Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Numerical Patterns Verbally count beyond 20, recognising the pattern of the counting system; Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally Spatial Awareness Continue, copy and create repeating patterns (AB, ABB, ABBC) Compare length, weight and capacity							
Mastering Number	Subitising 1 more and doubles patterns Same number, different arrangement Number withing 10 When to count and when to subitise	Cardinality, ordinality and counting Verbal to and beyond 20 Accuracy in verbal and object counting	Composition Composition of 10	Comparison Order sets of objects linking to ordinal number system	Subitising Consolidation	Cardinality, ordinality and counting Consolidation	Composition Consolidation	Comparison Consolidation

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Place value within 10 Review of counting counting on and backwards introducing a whole as parts				Place value within 10 comparison of quantities and measure		Addition and subtraction Composition of numbers 0 - 5			Addition and subtraction Composition of numbers 6 - 10		
Autumn STEM	Seasons Sequencing events Using language relating to dates, times etc						Animals Grouping and classifying Pictographs					
Spring	Place value within 20 counting on and backwards teen numbers comparison			Addition and subtraction up to 20 addition by counting on doubles and near doubles subtraction and difference		Place value up to 50 counting 20 – 50 number lines 1 more 1 less		Length and height measurement comparison		Mass and volume measure mass compare volumes		
Spring STEM	Materials Measure mass Compare volume Reading basic scales						Plants Measure length Compare lengths and heights					
Summer	Multiplication and Division grouping and sharing counting in 2s, 5s and 10s				Place value up to 100 counting in 10s partitioning numbers 1 more 1 less			Geometry Position and direction Turns		Geometry 2D shapes 3D shapes		
Summer STEM	Materials Compare lengths and heights Grouping and classifying						Human body Grouping and classifying					

Place Value		Calculation	Fractions	
Measurement		Geometry	STEM	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Place value up to 100 Review of counting in 10s Partitioning and recognising tens and ones					Addition and subtraction Bonds to 10, related facts Bonds to 100 (tens) Adding and subtracting – 2 digit and 1 digit						
Autumn STEM	Plants Measuring Comparison of length and height						Habitats Grouping and classifying Pictographs					
Spring	Addition and subtraction Add and subtract tens Add and subtract two-digit numbers not across and across tens			Multiplication and division Equal groupings Doubling and halving 2x, 5x, 10x tables				Length and height Measuring Comparing		Money Counting Calculating Comparing		
Spring STEM	Human body Block graphs Measuring length and height						Plants Measure length Compare lengths and heights					
Summer	Geometry Recognising 2D and 3D shapes Properties of shape			Mass, capacity and temperature Comparison Measuring volume and mass Four operations				Fractions Halves, quarters, and thirds Equivalence		Position and direction Describing movement and turns		
Summer STEM	Living things Compare lengths and heights Grouping and classifying						Animals Grouping and classifying					

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Autumn	Place value up to 1000 Review of place value to 100 Place value of 3 digit numbers Bridging 100						Addition and subtraction Securing mental strategies up to 999 Written methods for addition and subtraction					
Autumn STEM	Rocks Measuring Grouping and classifying Tables - tallying						Plants Grouping and classifying Pictograms					
Spring	Multiplication and division Review 2s, 5s and 10s – equal groups 2x, 4x and 8x tables 3x, 6x and 9x tables				Length and perimeter Measure Compare Perimeters		Multiplication and division Multiply 2 digit number by a 1 digit with and without exchange Divide 2 digit number by a 1 digit with and without exchange					
Spring STEM	Forces Block graphs Measurement Tally charts						Animals Grouping and classifying Pictograms Bar charts					
Summer	Fractions Unit and non-unit fractions Compare and order Fractions on a number line				Geometry Angles Parallel and perpendicular lines Properties of 2D and 3D shapes			Fractions Tenths Adding and subtracting fractions				
Summer STEM	Electricity Measurement Parallel and perpendicular lines Bar charts											

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Autumn	Place value up to 10000 Review of place value to 1000 Place value of 4-digit numbers Bridging 1000					Addition and subtraction Securing mental strategies up to 9999 Written methods for addition and subtraction				Decimals Composition of tenths and hundredths Order and compare		
Autumn STEM	Animals - digestion Measuring Interpreting graphs					Animals – food chains Grouping and classifying Interpreting graphs						
Spring	Multiplication and division Review 3x, 4x, 6x, 8x, 9x tables 7x, 11x, 12x tables Multiplying by 1 and 0 Multiply 3 numbers				Perimeter and area Calculate rectangles Regular shapes			Multiplication and division Multiply and divide by 10 and 100 Multiply and divide 3 digit by 1 digit numbers				
Spring STEM	Plants Line graphs Measurement					Materials Grouping and classifying Line graphs						
Summer	Fractions Mixed numbers Improper fractions Converting Adding and subtracting				Geometry Properties of shapes Identifying angles Symmetry Triangles and Quadrilaterals			Geometry Co-ordinates Translations			Consolidation Four operations Decimals	
Summer STEM	Animals Grouping and classifying Line graphs Bar charts					Electricity Measurement Parallel and perpendicular lines Line graphs						

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Autumn	Place value up to 1,000,000 Review of place value to 10000 Composition of numbers up to 1,000,000 Negative numbers					Addition and subtraction Mental strategies Inverse operations Missing numbers Written methods						
Autumn STEM	Materials Measuring Volume Interpreting graphs						Sustainable Education Interpreting graphs Line graphs					
Spring	Multiplication and division Multiples and factors Prime, square and cube numbers Multiply and divide by 10, 100 and 1000				Fractions Mixed and improper fractions Adding and subtracting fractions			Multiplication and division Multiply 2D by 2D, 3D by 2D and 4D by 2D numbers Short division Divide 4D by 1D numbers Division with remainders				
Spring STEM	Forces Volume Line graphs						Living things Line graphs Grouping and classifying Two-way tables					
Summer	Fractions, Decimals and Percentages Multiplying fractions Decimals, percentages and fractions Thousandths				Geometry Angles – protractors Calculating angles Drawing lines and angles Reasoning about 3D shapes		Decimals Calculating with thousandths Multiplying and dividing decimals		Geometry Position on quadrants Translations Reflections		Perimeter and Area Perimeter of polygons Area of compound shapes	
Summer STEM	Earth Line graphs Two-way tables						Living things Line graphs Two-way tables					

Place Value		Calculation	Fractions	
Measurement		Geometry	STEM	

Year 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Place value up to 10,000,000 Review of place value to 1,000,000 Composition of numbers up to 10,000,000			Addition and subtraction Mental strategies Missing numbers Written methods		Multiplication Factors and multiples Primes Written methods		Division Rules of divisibility Short division Written methods			Multiplication and Division Order of operations Compensation	
Autumn STEM	Living things - plants Measuring Interpreting graphs						Earth Interpreting graphs Line graphs Calculation					
Spring	Fractions Equivalence and simplifying Compare and order Add and subtract Multiply and divide				Ratio Ratio and fractions Scale factors Scale drawing		Algebra Function machines Substitution 1 and 2 step equations		Fractions, decimals, percentages Decimals as integers Equivalence Percentages of amounts			Geometry Four quadrants Translation Reflection
Spring STEM	Living things - classification Pie charts Line graphs						Space Line graphs Circles					
Summer	Geometry Angles – measuring, calculating, in triangles and polygons 3D nets				Area, perimeter and volume Area of a triangle Volume of cuboids		Consolidation Number Fractions Geometry					
Summer STEM	Living things - microbes Line graphs Pie charts Mean						Habitats Line graphs Pie charts					