Maths	We use the mixed year group Essential Maths for Years 1/2. Termly diagnostic assessments take place. Maths fluency is taught at least three times each week, sometimes as an extension of the maths lesson and sometimes separately. Whilst the Learning Sequences are the same, the lessons are differentiated according to year group expectations. For example whilst Year 1 pupils recognise and name common 2D and 3D shapes including rectangles, circles and triangles/ 3D shapes including cuboids, pyramids and spheres Year 2 identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical
	line/ identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.
Nursery	Number
	Develops fast recognition of up to 3 objects, without having to count them individually (subitising).
	Recites numbers past 5.
	Says one number for each item in order: 1,2,3,4,5.
	Knows that the last number reached when counting a small set of objects tells you how many there are in total (cardinal principle). Shows 'finger numbers' up to 5.
	Links numerals and amounts, e.g. showing the right number of objects to match the numeral, up to 5
	Experiments with their own symbols and marks as well as numerals.
	Solves real world mathematical problems with numbers up to 5
	Compares quantities using language: 'more than', 'fewer than'.
	Numerical Patterns
	Talks about and identifies the patterns around them, e.g. stripes on clothes, designs on rugs and wallpaper.
	Uses informal language like 'pointy', 'spotty', 'blobs', etc.
	Extends and creates ABAB patterns – stick, leaf, stick, leaf.
	Notices and corrects an error in a repeating pattern.
	Begins to describe a sequence of events, real or fictional, using words such as 'first', 'then'
	Shape, Space and Measure
	Talks about and explores 2D and 3D shapes using informal and mathematical language, e.g. 'sides', 'corners'; 'straight', 'flat', 'round'.
	Understands position through words alone, e.g. "The bag is under the table," – with no pointing.
	Describes a familiar route. Discusses routes and locations, using words like 'in front of' and 'behind'.
	Makes comparisons between objects relating to size, length, weight and capacity.
	Selects shapes appropriately, e.g. flat surfaces for building, a triangular prism for a roof, etc.
	Combines shapes to make new ones, e.g. an arch, a bigger triangle, etc.

Count 0-5 in everyday contexts	Recite numbers past 5	Say one number for each item in					
Compare amounts	Know that the last number reached when	order, 1-5 & show finger numbers up					
Compare weight	counting a small set of objects tells you	to 5					
Compare size	how many there are in total ('cardinal	Link numerals and amounts					
Positional Language	principle')	Solve real world mathematical					
	Understand position through words alone	problems with numbers up to 5					
	Select shapes appropriately: flat surfaces	Talk about and explore 2D and 3D					
	for building, triangular prism for roof etc.	shapes (for example, circles,					
	Talk about and identify the patterns	rectangles, triangles and cuboids)					
	around them Extend and create ABAB	using informal and mathematical					
	patterns	language					
		Describe a familiar route and					
		Make comparisons between objects					
		capacity Combine shapes to make					
		new ones e.g. an arch to make a					
		bigger triangle					
		Notice and correct an error in a					
		repeating pattern					
		Begin to describe a sequence of					
		events, real or fictional					
Reception Children will have a deep understanding of num	mber to 10, including the composition of each	number. Subitise (recognise					
quantities without counting) up to 5. Automat	ically recall (without reference to rhymes, cou	nting or other aids) number bonds up					
to 5 (including subtraction facts) and some nu	mber bonds to 10, including double facts. Verb	bally count beyond 20, recognising the					
pattern of the counting system. Be able to con	npare quantities up to 10 in different contexts	, recognising when one quantity is					
greater than, less than or the same as the other	er quantity. Explore and represent patterns wi	unin numbers up to 10, including evens					
canacity position distance time and money t	to compare quantities. Create and describe pa	tterns Explore characteristics of					
everyday objects and shapes and use mathem	everyday objects and shapes and use mathematical language to describe them. Use money with increasing confidence.						

	Pupils work in small gro threaded through nearl	Pupils work in small groups with adults targeting key content from our agreed curriculum. Maths Learning opportunities are threaded through nearly all aspects of continuous provision.						
	Recognise, count, and count beyond.1 more 1 lessSubitising – notice whensame or different, makeidentify more or less.Counting Skills- Countinnames in order with 1-1Say which number is 1 rgiven number.Ordering and recognisirComparison – Measuresweight and position.Pattern recognition, coridentificationClassification – use langeveryday shapes and uslanguage to describe thCount on or back to find	Recognise, count, and order numbers to 5 and beyond.1 more 1 less.Subitising – notice when patterns are the same or different, make the same values, identify more or less.Counting Skills- Counting reliably using 		relop spatial thinking to position, direction mbols I Magnitude – ing I Count reliably numbers to 10 and other numbers. 1 more /1 less. 1 more /1 less. ind total number. ssing parts. umbers to 5 and bonds to 10. and subtract two ently beyond 10, in the number	Solve simple mathematical problems. Doubling, halving, and sharing Begin understanding odd and even numbers. Begin to secure understanding of equal and unequal groups. Recognise when a share is fair. Consolidation of learning. Count reliably with numbers 1-20, place them in order and say which number is one more or one less. Solve simple mathematical problems. Ten and some more- counting beyond 20 . Understand patterns in consecutive numbers. Understand groups of ten			
Year 1	Positional language and sequencing, Subitising leading to more and fewer, Number magnitude, estimation and comparison, place	Additive Reasoning, the understanding and language of operations, part whole, equality and comparison,	Geometry 1, regrouping to add and subtract, strategy choices for addition and subtraction problem solving	Doubling and halving, multiplication counting multiples and repeated addition, multiplication	Money, Fractions, problem solving all four operations, time turns and telling the time, time drawing hands on	Measures and reading scales, statistics, geometry 2, place value with larger numbers,		

	value making tens and some more, Time, estimating sequencing and comparing	measures length, height and mass	with addition and subtraction	number of groups, group size and product, division sharing and grouping, problem solving with multiplication and division.	clock and interval of time	calculation review.	
Year 2	Positional language and sequencing, Subitising leading to more and fewer, Number magnitude, estimation and comparison, place value making tens and some more, Time, estimating sequencing and comparing	Additive Reasoning, the understanding and language of operations, part whole, equality and comparison, measures length, height and mass	Geometry 1, regrouping to add and subtract, strategy choices for addition and subtraction problem solving with addition and subtraction	Doubling and halving, multiplication counting multiples and repeated addition, multiplication number of groups, group size and product, division sharing and grouping, problem solving with multiplication and division.	Money, Fractions, problem solving all four operations, time turns and telling the time, time drawing hands on clock and interval of time	Measures and reading scales, statistics, geometry 2, place value with larger numbers, calculation review.	
We use the mixed year group Essential Maths for Year1/2. Termly diagnostic assessments take place. Maths fluency is taught at least three times each week, sometimes as an extension of the maths lesson and sometimes separately. Whilst the Learning Sequences are the same the lessons are							
differentiated according to year group expectations For example under Number and Place Value Reasoning 1 Year 3 would learn place value in a three digit number, to find 10 or 100 more or less and to compare and order numbers up to 1,000. Year 4 would learn place value in a four digit number, to identify represent and estimate numbers using different representations and to round any number to the nearest 10-100-1 000							
Year3	Number and Place	Multiplicative	Proportional	Statistical	Number and Place	Operational	
	Value Reasoning.	reasoning –building	Reasoning- Adding	Reasoning –Scaling	value reasoning-	reasoning-	
	Additive Reasoning	fact recall	and subtracting	Multiplicative	Decimals	Understanding	
	Mental addition.	Proportional	fractions	Reasoning-	Measurement	and applying	
		reasoning –scaling,			Reasoning-		

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	Additive reasoning	comparison,	Geometric	Multiplicative Laws	Comparing,	the Four
	mental subtraction	tractions	reasoning –	and Area	Estimating and	Operations
		Geometric	Properties of 2 D	Multiplicative	Calculating with	Proportional
		reasoning – Angles	shape.	Reasoning	Measures	Reasoning –
		and lines	Additive reasoning	Formal written	Measurement and	Finding
		Any remaining	–Formal written	Multiplication and	Statistical	Fractions of
		weeks will be	Addition and	division	reasoning –Time,	Continuous
		review and close	Subtraction.		Timetables and	Quantities
		the gap sessions	Spatial reasoning –		Time Graphs	
		focusing on high	Perimeter.			Rolling Topics
		value learning-				First Year
		place value, mental				Roman
		and written fluency.				Numerals to
						100 (4LS28)
Year 4	Number and Place	Multiplicative	Proportional	Statistical	Number and Place	Operational
	Value Reasoning.	reasoning -building	Reasoning- Adding	Reasoning –Scaling	value reasoning-	reasoning-
	Additive Reasoning	fact recall	and subtracting	Multiplicative	Decimals	Understanding
	Mental addition.	Proportional	fractions	Reasoning-	Measurement	and applying
	Additive reasoning	reasoning -scaling,	Geometric	Multiplicative Laws	Reasoning-	the Four
	mental subtraction	comparison,	reasoning –	and Area	Comparing,	Operations
		fractions	Properties of 2 D	Multiplicative	Estimating and	Proportional
		Geometric	shape.	Reasoning Formal	Calculating with	Reasoning –
		reasoning – Angles	Additive reasoning	written	Measures	Finding
		and lines	–Formal written	Multiplication and	Measurement and	Fractions of
		Any remaining	Addition and	division	Statistical	Continuous
		weeks will be	Subtraction.	Any remaining	reasoning – Time,	Quantities
		review and close	Spatial reasoning –	weeks will be	Timetables and	Rolling Topics
		the gap sessions	Perimeter.	review and close	Time Graphs	Second year
		focusing on high		the gap sessions		Negative
		value learning-		focusing on high		numbers-
		place value, mental		value learning-		Counting
		and written fluency.		place value, mental		through Zero
				and written fluency.		and Calculating

						in Context (4LS29) Geometry- Coordinates in the first Quadrant and Translations (4LS32) Geometry – Position and Direction, incorporating Angles and Plotting Points of a Shape (4LS33)
						(1-000)
Year 5	Place Value and Rounding of Large Numbers Interpret Negative Numbers 3 Place Value of Numbers with up to Three Decimal Places Multiply and Divide by 10, 100 and 1,000 Properties of Number – Multiples, Factors and Common Factors Prime and Composite Numbers8 Multiply and Divide Mentally Solve Problems	Add and Subtract Using a Range of Strategies Add and Subtract Using Formal Written Methods Formal Written Method for Multiplication Formal Written Method of Short Division Equivalent Fractions Compare and Order Fractions Adding	6 Problem Solving – All Four Operations Multiply Fractions by Whole Numbers Fraction Problem Solving Measure – Converting Units of Measure Area Volume and Capacity	Percentages Problem Solving – Percentages 3-D Shapes from 2- D Representations Reflection and Translation Perimeter Estimate, Compare, Measure and Draw Angles Identify Unknown Angles	Formal Methods for Division and Multiplication in Increasingly Complex Problems Strategies for Multiplication and Division (Mental and Written) Solving Problems involving Scaling by Simple Fractions and Rates	Reading Timetables and Calculating with Time Solve Problems involving the Four Operations Distinguish between Regular and Irregular Polygons Use Properties of Rectangles Statistics – Solve

	Involving Knowledge of Key Facts	and Subtracting Fractions			Conversion of Imperial and Metric Units of Measure Fractions, Decimals and Percentages Problem Solving	Comparison, Sum and Difference Problems using Information in a Line Graph Statistics – Interpreting and Evaluating Information Presented in Charts and Tables Roman
No. of		The state of the		Dell'e e el		Numerals
Year 6	Place Value Multiply and Divide by 10, 100 and 1,000 Choosing Effective Mental Calculation Strategies Problem Solving with Four Operations Application of Factors, Multiples and Primes Equivalent Fractions Comparing and Ordering Fractions Adding and Subtracting Fractions	Fraction and Decimal Equivalents Fractions, Decimals and Percentages Calculating Percentages Formal Written Method of Multiplication 3 Area of Parallelograms and Triangles 4 Formal Written Method of Short Division Properties of Shape	Order of Operations and Algebra Formal Written Method for Long Division Exploring Relationships Between Perimeter and Area Recognise and Find Angles Reflection and Translation Multiplying Fractions Dividing Fractions Fraction Problem Solving	Ratio and Proportion Volume Measures Statistics – Interpret Line Graphs and Pie Charts Algebra and Sequences	Statistics – Calculate and Interpret Mean Average Application of Previous Years' Learning Application of Known Facts and Calculation Strategies Any remaining time before SATs will be used to consolidate key learning	Constructing Pie Charts Statistical Representations Further Algebra Financial Maths and Enterprise Maths Preparation for KS3