Maths at Weetwood – Curriculum map 2024-2025

	Over the year, maths is taught through the areas of provision, following the themes we study and the interests of the children.		
	Autumn	**Spring**	**Summer**
 **Nursery**	▪ Recite numbers past 5. ▪ Say one number name for each item in order: 1, 2, 3, 4, 5. ▪ Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). ▪ Experiment with their own symbols and marks, as well as numerals.	▪ Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). ▪ Show 'finger numbers' up to 5. ▪ Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. ▪ Experiment with their own symbols and marks as well as numerals. ▪ Solve real world mathematical problems with numbers up to 5. ▪ Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'. ▪ Select shapes appropriately: flat surfaces for a building, a triangular pattern for a roof, etc. ▪ Combine shapes to make new ones – an arch, a bigger triangle, etc.	▪ Compare quantities using language: 'more than', 'fewer than'. ▪ Make comparisons between objects relating to size, length, weight and capacity. ▪ Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then… ▪ Talk about and identify the patterns around them. For example, stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc. ▪ Extend and create ABAB patterns – stick, leaf, stick, leaf. ▪ Notice and correct an error in a repeating pattern. ▪ Describe a familiar route. ▪ Discuss routes and locations, using words like 'in front of' and 'behind'. ▪ Understand position through words alone – for example, "The bag is under the table," – with no pointing.
 **Reception**	▪ Subitise. ▪ Link the number symbol (numeral) with its cardinal number value. ▪ Compare numbers. ▪ Automatically recall number bonds for numbers 0-5 and some to 10.	▪ Compare numbers. ▪ Explore the composition of numbers to 10. ▪ • Compare length, weight and capacity.	▪ Count objects, actions and sounds. ▪ Count beyond ten. ▪ Compare numbers. ▪ Understand the 'one more than/one less than' relationship between consecutive numbers. ▪ 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. ▪ Draw information from a simple map. ▪ Continue, copy and create repeating patterns.
ELG	▪ Subitise (recognising quantities without counting) up to 5	▪ Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. ▪ Have a deep understanding of numbers to 10, including the composition of each number. ▪ Automatically recall (without reference to rhymes, counting or other	• Verbally count beyond 20, recognising the pattern of the counting system. • Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly

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			aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.			
Year 1	**Place Value (10)**	**Addition/Subtraction (10)**	**Addition and Subtraction (20)**	**Length and Height**	**Multiplication and Division reinforce multiples of 2,5,10s**	**Place Value (100)**
	Reading, writing, ordering and comparing numbers to 10.	Subtracting 2 single digit numbers within 10 using different methods and representation. -Facts Families for sets of numbers.	Adding and subtracting 2 numbers within 20 using numbers bonds, making 10 and crossing 10.	-Comparing and measuring lengths and heights using cm and non-standard measurements.	Counting in 10s -Making equal groups and arrays through sharing and grouping	- Reading, writing, ordering and comparing numbers to 100. -Partitioning numbers to 100 into tens and ones.
	Addition/Subtraction (10)	**Shape**	**Place Value (20) including multiples of 2,5,10s**	**Mass and volume**	**Fractions**	**Money**
	-Adding 2 single digit numbers together different methods and representations. -Number bonds for all numbers to 10	-Recognizing and naming 2D and 3D shapes. -Making pattern	-Reading, writing, numbers to 50. -Tens and ones in numbers to 50	-Measuring and comparing mass, volume and capacity using non -standard units	-Finding halves and quarters in shapes and numbers.	Recognizing coins and notes. - Finding amounts of coins
		Place Value (20)			**Position and Direction**	**Time**
		-Reading, Writing and comparing numbers and groups of objects to 20. -Tens and ones to 20.			-Describing turns and positions.	-Reading time to the hour and half hour -Comparing time -Measuring and writing time
Year 2	**Number**	**Addition and subtraction**	**Multiplication and division**	**Measurement - Length and Height**	**Measurement - Time**	**Consolidation and problem solving**
	Place Value up to 100. Comparing and ordering numbers. Counting in 2's,5's and 10's.	Bonds to 20 and 100, add and subtract 2 digit to 2 digit numbers.	Making equal groups by sharing and grouping of 2's, 5's and 10's, odd and even numbers.	Measure, compare and order lengths in M and CM. Use all four operations learnt so far.	O'clock, half past, quarter to and past, telling the time to 5 minutes, hours in a day.	
	Shape	**Measurement - money**	**Multiplication and division**	**Measurement - Mass, capacity and temperature**	**Statistics**	
	Lines of symmetry, making patterns, edges, faces, vertices of 2D and 3D shapes.	Money Counting, in pence and pounds, notes and coins, making, comparing, finding the total and difference and giving change.	Making equal groups by sharing and grouping of 2's, 5's and 10's, odd and even numbers.	Compare mass in G and K and compare capacity in ML and L.	Tally charts, pictograms and block diagrams.	
			Fractions	**Position and movement**		
			Find half, quarter, thirds, count in fractions.	Describe movements, turns and make patterns.		

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Year 3 	**Place Value up 1000**	**Addition and subtraction using three digit numbers**	**Multiplication and Division –**	**Number – fractions**	**Fractions**	**Measurement of shapes – Geometry**
	Identifying Hundreds, Tens and Ones and finding numbers greater than and less than. Finding 1, 10, and 100 more or less than numbers to 1000. Comparing objects and numbers to 1000. Counting in 50s.	Adding two three digit numbers crossing 10 or 100. Subtracting a three-digit number from a three-digit	recapping 3, 4 and 8 times table, Two digits multiplied by single digit. Comparing statements. Multiplying two digit numbers by single digits. Dividing two digit numbers by single digits. Scaling.	Identifying unit and non- unit fractions. Making a whole. Identifying and counting in tenths. Finding fractions on a number line. Finding fractions of amounts.	Identifying equivalent fractions. Comparing fractions. Ordering fractions. Adding and subtracting fractions with the same denominator.	Identifying turns and angles. Recognising right angles in shapes. Comparing angles. Drawing lines accurately. Horizontal and vertical lines. Parallel and perpendicular lines. Recognising and describing 2D shapes. Recognising and describing 3D shapes. Making 3D shapes.
	Addition and subtraction using three digit numbers	**Multiplication and Division**	**Measurement – length and perimeter.**	**Measurement – mass and capacity**	**Measurement - Money**	**Statistics**
	Adding and subtracting multiples of 100. Adding and subtracting single digits to three digit numbers Adding and subtracting two digit numbers to three digit numbers. number with an exchange.	(focus on 3, 4 and 8 times tables) Identifying that multiplication uses equal groups. Multiplying and dividing by 3. Multiplying and dividing by 4. Multiplying and dividing by 8. Using 3, 4 and 8 times tables to solve problems. Consolidation of addition and subtraction -recapping using columns to add and subtract.	Measuring lengths and identifying equivalents lengths (mm, cm and m) Comparing lengths. Adding and subtracting lengths Measuring and calculating perimeters.	Measuring mass. Comparing mass. Adding and subtracting mass. Measuring capacity. Comparing capacity. Adding and subtracting capacity.	Identifying and finding totals using pounds and pence. Converting pounds and pence. Adding and subtracting amounts of money. Giving change. **Measurement – time** Identifying months and years. Hours in a day. Telling the time to 5 minutes. Using am and pm. 24-hour clock. Finding and comparing durations. Start and end times. Measuring time in seconds.	Interpret and present data in bar charts, pictograms and tables.
Year 4 	**Number – Place Value**	**Measurement – Area**	**Number – Multiplication and Division**	**Number – Fraction**	**Number – Decimals**	**Geometry – Properties of Shapes**
	Children will learn to recognise the value of the thousands, hundreds, tens and ones. They will find 100 and 1000 more and	Children will learn to find the area of rectilinear shapes by counting the squares.	Children will continue to practise multiplication facts and learn to multiply one-digit numbers by 2 digit numbers using a formal written layout.	Children will learn about equivalent fractions. They will investigate fraction problems looking at quantities.	Year 4 will compare numbers with the same number of decimal places up to two decimal places. They will learn to round decimals	Children will investigate angles; they will learn to identify and order acute and obtuse angles. They will also learn to classify shapes and identify lines of symmetry in different

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	less than given numbers and solve practical problems.				and identify the value of tenths and hundredths.	orientations.
	Number – Addition and Subtraction	**Number – Multiplication and Division**	**Measurement – Length and perimeter**	**Number – Decimals**	**Measurement – Money**	**Statistics**
	Children will practise column addition and subtraction with exchanges. They will find the most efficient way to subtract and learn how to estimate.	Children will practise counting in multiples of 6, 7, 9, 25 and 100. They will learn to multiply 2 digit numbers by 1 digit numbers using the distributive law.	Year 4 will learn how to find and measure the perimeter of rectilinear shapes in cm and m.	They will learn to write decimal equivalents of any number of tenths or hundredths. Children will learn to solve fractions and decimals problems to two decimal places.	Children will learn to estimate, compare and calculate different measures, including money in pounds and pence.	Year 4 will begin to interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. They will solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
					Measurement – Time	**Geometry – Position and Direction**
					Children will learn to read, write and convert time between analogue and digital 12-and 24-hour clocks. They will investigate problems involving time and conversion from hours to minutes; minutes to seconds; years to months; weeks to days.	Year 4 will learn to describe positions on a quadrant in coordinates and plot coordinates to create a shape. They will learn to describe the movements of a translation.
Year 5	**Place Value:**	**Multiplication and division**:	**Multiplication and Division:**	**Decimals and Percentages:**	**Properties of Shape**	**Decimals:**
	up to 1,000,000	Multiply and divide whole numbers by 10, 100 and 1000. Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Multiply and divide up to 4 digits by a 1 or 2 digit number using long multiplication and short division	Read, write, order and compare numbers with up to three decimal places.	Measure angles in degrees with a protractor Calculate angles and lengths of regular and irregular polygons	Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
	Addition and Subtraction:	**Fractions**	**Fractions:**	**Perimeter and Area**	**Position and Direction**	**Number:**

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	whole numbers using the column method up to 4 digits checking with the inverse operation Statistics Read and interpret line graphs, two way tables and timetables	Compare and order fractions Identify, name and write equivalent fractions Recognise mixed numbers and improper fractions Add and subtract fractions with the same denominator and denominators that are multiples of the same number.	Multiply proper fractions and mixed numbers by whole numbers.	Measure and calculate the perimeter and area of composite rectilinear shapes in cm and m, cm2 and m2	Reflection and translation with coordinates	Negative numbers
				Statistics		Measurement: Converting Units
				Read, interpret and problem solve with line graphs. Read and interpret tables and timetables.		Convert between different units of metric and imperial measure
						Measurement: Volume
						Compare and estimate volume and capacity
Year 6	Number – Place Value	Number – Addition, Subtraction, Multiplication and Division	Number - Ratio	Number – Algebra	Geometry – Position and Direction	Geometry – Properties of Shapes
	Up to 10,000,000	Multiply mullti-digit number up to 4 digits by a 2-digit number using formal method of long multiplication. Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division.	Calculate ration and proportion	Use simple formulae	Describe and translate positions on the full coordinate grid (All four quadrants)	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.
	Number – Fractions	Number – Fractions	Number – Decimals	Number – Fractions, decimals and percentages	Problem Solving	Investigations
	Use common factors to	Multiply fractions by integers,	Multiply one-digit numbers with up to	Use equivalences between	Making links across the maths	Making links across the maths

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simplify fractions; use common multiples to express fractions in the same denomination. Compare and order fractions, including fractions>1	Multiply fractions by fractions, Divide a fraction by an integer, Divide any fraction by an integer, Mixed questions with fractions, Fraction of an amount, Fraction of an amount – find the whole	2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places.	simple fractions, including in different contexts	curriculum.	curriculum.
Measurement – Converting Units	Measurement – Perimeter, Area and Volume	Statistics	SATs Revision	Consolidation for transition	Arithmetic consolidation
Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit, and vice versa, using decimal notation to up to 3dp.	Use formulae for area and volume of shapes. Calculate the area and volume of shapes. Calculate the area of parallelograms and triangles.	Line graphs, pie charts, dual bar charts, the mean, Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter		Finance, budgeting, money problems, Roman art using tessellation.	