Mathematics Provision at Marwood School

EYFS	**RECEPTION** **Communication and Language:** ● Learn new vocabulary ● Use new vocabulary throughout the day **Mathematics:** ● Count objects, actions and sounds ● Count beyond 10 ● Subitise ● Link the number symbol (numeral) with its cardinal number value. ● Compare quantities using language: 'more than', 'fewer than'. ● Compare numbers ● Understand the 'one more than/one less than' relationship between consecutive numbers. ● Explore the composition of numbers to 10. ● Automatically recall number bonds for numbers 0-5 and some to 10. ● Compare length, weight and capacity. ● 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. ● Continue, copy and create repeating patterns. **Understanding the World** ● Draw information from a simple map. **EARLY LEARNING GOALS** **Communication and Language: Speaking:** ● Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. **Mathematics: 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. **Mathematics: Number:** ● Subitise (recognising quantities without counting) up to 5. ● Have a deep understanding of numbers to 10, including the composition of each number.# ● 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.

	Autumn		Spring		Summer	
	BLOCK	**UNITS**	**BLOCK**	**UNITS**	**BLOCK**	**UNITS**
RECEPTION	Understanding Number	Counting and naming numerals	Understanding Number	Counting and estimating	Understanding Number	Teen numbers: 10 and some more
		Ordering numbers; sequencing		Order and compare numbers		Exploring 100
		One more and one less, up to 12		Partition to create number bonds		Number games
	Numbers and Sets	Find 'How many?'; match one-to-one	Addition and Subtraction	Say the number 1 more/ less	Addition and Subtraction	Equivalence
		Partitioning to create number bonds		Count on to add		Bonds to 10.
		Beginning to record number bonds		Count back to subtract		Counting on; 1 more/ less
	Comparison and Measures	Comparing lengths	Comparison and Measures	Comparing weights	Patterns	Clever counting
		Comparing heights and numbers		Measuring weights		Doubling and halving
		Introducing time		Time		Fractions
	Patterns	Exploring repetitive patterns	Money and Coins	Coin recognition	Comparison and Measures	Measuring outside
		Counting in 2s; even and odd numbers		Money role play		Telling the time
	Shapes	Exploring and playing with symmetry	Shapes	Where is it?	Shapes and Sorting	Talking about shapes
		Exploring and playing with 2-D shapes		Explore and play with 3-D shapes		Sorting

KS1	Place Value	Counting and estimation	Place Value and Number	2-digit place value	Number and Calculation	Place Value
		Teens and pace value in 2-digit numbers		Numbers and quantities		Fractions
		Numbers on a line; compare/order	Addition and Subtraction	Mental addition and subtraction		Addition
		Count to 100, 1 more/less; ordinals		Adding and subtracting money		Subtraction
	Addition and Subtraction	Partition numbers; learn number bonds		Add/sub pairs of 2-digit numbers		Multiplication and Division
		Add by counting on in 1s or 10s	Measures and Data	Compare and measure weight	Position and Time	Position and Time
		Counting back; understand + and –		Measure and represent capacity	Revision	Place Value
	Measures	Comparing and measuring lengths		Tell the time; units of time		Fractions
		Coin recognition: find amounts & change	More Addition and Subtraction	Addition		Addition and Subtraction
		Tell time to half and quarter hours		Subtraction		Multiplication and Division
		Understand units of time	Fractions and Multiplication	Clever counting; multiplication		Measures
	More Addition and Subtraction	Reinforce and consolidate number bonds		Relating multiplication and division		Shape
		Use number facts to add and subtract		Fractions	Place Value, Addition and Subtraction	Place Value in 2-digit numbers

		Adding and subtracting tens and ones	Shape	2-D shapes		Add/subtract 1-digit numbers using unit patterns
		Using different strategies for addition		Symmetry		Bonds to 10; complements to multiples of 10
	Fractions and Multiplication	Understanding halves and quarters		3-D shapes		Bridging 10 and counting up subtraction
		Doubling & halving; odd & even numbers				Adding three numbers – number games
		Counting in steps of 2 and 5			Multiplication, Division and using Money	Doubling and halving
						Multiplication and division
						Finding totals
						Finding change
					Shape, Time and Data	Exploring properties of 3-D shape
						Exploring properties of 2-D shape; turns
						Telling the time
						Units of time, block graphs and pictograms

LKS2	Place Value and Money	Numbers on a line; compare and order	Place Value and Fractions	Negative numbers	Number and Place Value	Number and Place Value
		PV in 3-/4-digit numbers; amounts of money		Fractions		Sequences and Roman Numerals
		+/- 1, 10, 100 and 1000, and multiples		Equivalent fractions; +/– fractions	Addition and Subtraction (A)	Written algorithms
	Addition and Subtraction (A)	Strategies for adding and subtracting	Addition and Subtraction	Mental addition and subtraction		Finding a difference – whole numbers
		Number bonds to 100		3-digit +/– 1-digit numbers	Addition and Subtraction (B)	Money: finding change and differences
		Subtract by counting up: frog	Measures	Length and data		Written addition and subtraction
	Multiplication and Division (A)	Rehearsing & understanding times tables		Weight and data	Multiplication and Division (A)	Times tables, factors and multiples
		Partitioning in multiplication and division	Decimals and Money	x and ÷ with money and 1-place decimals		Division
	Fractions	Doubling, halving and the concept of a half		Decimals and money on a line	Multiplication and Division (B)	Using partitioning to double, halve and multiply
		Conceptualising fractions	Multiplication	Times tables		Scaling problems and mental strategies
		Finding fractions of amounts		Partitioning in multiplication	Fractions	Fractions
	Multiplication & Division (B)	Strategies for division	Addition and Subtraction (B)	Column addition	Decimals	Decimals and Money
	Addition and Subtraction (B)	+/- near-/multiples of 10, 100, 1000		Frog and decomposition		Decimals and Measures

		Partitioning and column addition	Division	Division	Measures and Data	Area and Perimeter
		Formal addition & subtraction algorithms	Time	Telling the time		Time
	Shape	Symmetry and 2D shapes		Time and data		Line Graphs and Bar Charts
		Understanding 3D shapes			Shape	Exploring shape properties
		Co-ordinates in the first quadrant				Coordinates and 3-D shapes
UKS2	Place value	PV and +/- in 5-digit and 6-digit numbers	Place value	Place value	Review	Numbers and place value
		Numbers on a line; round to powers of 10		Negative numbers		Addition and subtraction
	Addition and subtraction	Column addition with whole numbers	Calculation	Use of brackets in calculation		Decimals, multiplication and division
		Column addition; decimals and money		Addition and subtraction	Review 2	Fractions, ratio and percentages
		Whole number; decimals and money	Decimals and fractions	Frog for decimals		Charts, graphs and algebra
	Decimals	PV in 2- and 3- place decimal numbers		Exploring fractions		Area, perimeter and angles

		Count/ add/subtract 0.1, 0.01, 0.001		Multiply and divide fractions	Review 3	Factors, multiples, primes and squares
	Multiplication and division	Properties of numbers, including primes	Time and data	Time and timetables		Multiplication and division
		Short multiplication: whole numbers, money		Line graphs and pie charts		Equivalence in fractions, decimals and percentages
		Mental strategies in division	Multiplication	Multiples, factors and mental strategies		Data: pi charts and mean
	Addition and Subtraction	Money: counting up, change, differences		Multiplication		Charts, graphs and algebra
		Subtract numbers with 1 or 2 decimal places	Measures	Units of measurement		Area, perimeter and angles
		Strategies for +/-; word problems		Area, perimeter, scaled shapes	Decimals, addition and subtraction	Exploring decimals
	Multiplication and division	Mult/div strategies; rate/scaling problems		Finding volumes		Smashing subtraction
		Grid, short, long multiplication problems	Multiplication and division	Division		Accomplished addition
	Fractions	Order fractions; fractions of amounts		4-digit multiplication and division	Number properties and multiplication	Number properties

		Decimal/fraction equivalents	Algebra and ratio	Algebra		Exploring multiplications
		Add/subtract fractions, using equivalence		Ratio	Division, fractions and percentages	Division done
	Shape	Quadrilaterals, other polygons and circles				Calculating with fractions
		Find missing angles and draw 2-D shapes				Mastering percentages
		Sort 3-D shapes; nets and 3-D shapes			Measures, shape, data	It's time!
		Coordinates; polygons & transformations				Line graphs
						Understanding angles