Maths Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	**All About Me!** **Number and Place Value** Begin to recite some numbers Know and say some numbers Begin to understand the last number reached when counting a small set of objects tells you the total. Begin to show finger numbers up to 5 Experiment with their own symbols and marks as well as numerals Begin to compare quantities using language 'more than', 'fewer than'	**Terrific Tales!** **Number and Place Value** Begin to recite some numbers in sequence Begin to make connections with numerals and quantity Begin to understand the last number reached when counting a small set of objects tells you the total. Begin to show finger numbers up to 5 Experiment with their own symbols and marks as well as numerals Begin to compare quantities using language 'more than', 'fewer than' Solve real world Mathematical problems with numbers up to 5	**Patterns and Prints!** **Number and Place Value** Develop reciting some numbers in sequence Begin to develop recognition of up to 3 objects, without having to count them individually Develop understanding that the last number reached when counting a small set of objects tells you the total. Show finger numbers up to 5 with increasing confidence Experiment with their own symbols and marks as well as numerals Develop the skill of comparing quantities using language 'more than', 'fewer than' Solve real world Mathematical problems with numbers up to 5	**Ticket to Ride Who helps us?** **Number and Place Value** Know and say numbers to 5 in order with confidence Develop recognition of up to 3 objects, without having to count them individually Understand the last number reached when counting a small set of objects tells you the total Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 Show finger numbers up to 5 with increasing confidence Experiment with their own symbols and marks as well as numerals Develop ~~the skill of~~ comparing quantities using language 'more than', 'fewer than' Solve real world Mathematical problems	**Amazing Animals!** **Number and Place Value** Recite numbers past 5 Develop fast recognition of up to 3 objects, without having to count them individually Know the last number reached when counting a small set of objects tells you the total Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 Show finger numbers up to 5 Experiment with their own symbols and marks as well as numerals Compare quantities using language 'more than', 'fewer than' Solve real world Mathematical problems with numbers up to 5	**Come Outside!** **Number and Place Value** Recite numbers past 5 Say one number name for each item in order 1-5 Develop fast recognition of up to 3 objects, without having to count them individually Know the last number reached when counting a small set of objects tells you the total. Link numerals and amounts up to 5, match the numeral and amount Show finger numbers up to 5 Experiment with their own symbols and marks as well as numerals Compare quantities using language 'more than', 'fewer than' Solve real world Mathematical problems with numbers up to 5

	Measurement Begin to 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' etc **Properties of Shape** 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' Begin to select shapes appropriately eg triangle for a roof Combine shapes to make new ones **Position and Direction** Understand position through words alone – for example, "The bag is under the table," – with no pointing Begin to describe a familiar route Begin to discuss positions using words such as 'in front of' and 'behind' **Patterns** Begin to talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like	**Measurement** Begin to 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' etc **Properties of Shape** 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' Begin to select shapes appropriately eg triangle for a roof **Position and Direction** Understand position through words alone – for example, "The bag is under the table," – with no pointing Describe a familiar route Begin to discuss positions using words such as 'in front of' and 'behind' **Patterns** Begin to talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. 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	‘pointy’, ‘spotty’, ‘blobs’ etc. Start to explore and create ABAB patterns – stick, leaf, stick, leaf. Begin to notice and correct an error in a repeating pattern. Mathematical Vocabulary Begin to use a wider range of vocabulary Begin to understand ‘why’ questions	informal language like ‘pointy’, ‘spotty’, ‘blobs’ etc. Start to explore and create ABAB patterns – stick, leaf, stick, leaf. Begin to notice and correct an error in a repeating pattern. **Mathematical Vocabulary** Begin to use a wider range of vocabulary Begin to understand ‘why’ questions	and wallpaper. Use informal language like ‘pointy’, ‘spotty’, ‘blobs’ etc. Explore and create ABAB patterns – stick, leaf, stick, leaf. Begin to notice and correct an error in a repeating pattern. **Mathematical Vocabulary** Use a wider range of vocabulary Understand ‘why’ questions	‘pointy’, ‘spotty’, ‘blobs’ etc. Explore and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. **Mathematical Vocabulary** Use a wider range of vocabulary Understand ‘why’ questions	wallpaper. Use informal language like ‘pointy’, ‘spotty’, ‘blobs’ etc. Explore and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. **Mathematical Vocabulary** Use a wider range of vocabulary Understand ‘why’ questions	and wallpaper. Use informal language like ‘pointy’, ‘spotty’, ‘blobs’ etc. Explore and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. **Mathematical Vocabulary** Use a wider range of vocabulary Understand ‘why’ questions

Reception	**Number** *Numbers to 5* - Counting to 1, 2 and 3 - Counting to 4 - Counting to 5 *Comparing groups within 5* - Comparing quantities of identical objects - Comparing quantities of non-identical objects **Geometry** *2D and 3D shape* - 3D shapes - 2D shapes	**Number** *Change within 5* - One more - One less *Number bonds within 5* - Introduce the part-whole model **Geometry** *Space* - Spatial awareness	**Number** *Numbers to 10* - Counting to 5, 7 and 8 - Counting to 9 and 10 *Comparing numbers within 10* - Comparing groups up to 10 *Addition to 10* - Combining 2 groups to find the whole **Measure** *Length, height and weight* - Length, height and distance - Weight	**Number** *Number bonds to 10* - Using a ten frame - The part-whole model to 10 - *Subtraction* - Subtraction *Patterns* - Making simple patterns - Exploring more complex patterns	**Number** *Counting on and counting back* - Adding by counting on - Taking away by counting back *Numbers to 20* - Counting to 20 *Numerical patterns* - Doubling - Halving and sharing - Odds and evens **Geometry** *Composing and decomposing shapes* - Composing and decomposing shapes	**Measure** *Volume and capacity* - Capacity **Sorting (optional)** - Sorting into 2 groups **Measure** *Time (Optional)* - My day
Year 1	**Number** *Numbers to 10* - Sort objects - Count objects to 10	**Number** *Subtraction* - How any are left? - Break apart - Fact families	**Number** *Numbers to 20* - Count to 20 - Understand 10 - 11, 12 and 13 - 14, 15 and 16	**Measurement** *Length and height* - Comparing lengths and heights	**Number** *Multiplication* - Counting in 10s, 5s and 2s - Making equal groups	**Number** *Numbers to 100* - Counting to 100 - Exploring number patterns

	- Represent numbers to 10 - Count objects from a larger group - Count on from any number - One more - Count backwards from 10 to 0 - One less - Compare groups - Fewer or more - <, > or = - Compare numbers - Order objects and numbers - The number line *Part-whole within 10* - Parts and wholes - The part-whole model - Write number sentences - Fact families - Number bonds - Number bonds to 10 *Addition within 10* - Add together - Add more - Addition problems - Find the missing number	- Subtraction on a number line - Add or subtract 1 or 2 - Solve word problems (addition and subtraction) **Geometry** *2D and 3D shapes* - Recognise and name 3D shapes - Sort 2D shapes - Recognise and name 2D shapes - Sort 3D shapes - Make patterns with shapes	- 17, 18 and 19 - Understand 20 - One more and one less - The number line to 20 - Label number lines - Estimate on a number line - Compare numbers to 20 - Order numbers to 20 *Addition and Subtraction* - Add by counting on within 20 - Add ones using number bonds - Find and make number bonds to 20 - Doubles - Near doubles **Number** *Numbers to 50* - Counting to 50 - Numbers to 50 - Tens and ones - Representing numbers to 50 - Comparing numbers of objects - Comparing numbers	- Non-standard units of measure - Measuring length using a ruler - Solving word problems *Weight and volume* - Comparing weight - Measuring weight - Comparing weight using measuring - Comparing capacity - Measuring capacity - Comparing capacity using measuring - Solving word problems	- Adding equal groups - Making simple arrays - Making doubles - Solving word problems *Division* - Making equal groups - Sharing equally - Solving word problems *Fractions* - Finding halves - Finding quarters - Solving word problems *Position and direction* - Describing turns - Describing positions	- Partitioning numbers - Comparing numbers - Ordering numbers - Bonds to 100 **Measurement** *Time* - Using before and after - Using a calendar - Telling time to the hour - Telling time to the half hour - Writing time - Comparing time - Solving word problems *Money* - Recognising coins - Recognising notes - Counting with coins

			- Ordering objects and numbers - Counting in 2s - Counting in 5s - Solving word problems			
Year 2	**Numbers** *Numbers to 100* - Counting objects to 100 - Representing numbers to 100 - Tens and ones - Representing numbers on a place value grid - Comparing numbers - Ordering numbers - Counting in 2s, 5s and 10s - Counting in 3s *Addition and subtraction* - Related facts: addition and subtraction - Using number facts to check calculations - Comparing number sentences - Finding related facts - Making number bonds to 100 - Adding and subtracting 1s	**Measurement** *Money* - Counting money – coins - Counting money – notes - Showing equal amounts of money - Comparing amounts of money - Calculating the total amount - Finding change - Solving two-step word problems **Number** *Multiplication and division* - Making equal groups - Multiplication as equal groups - Adding equal groups - Multiplication sentences - Using arrays - 2 times-table - 5 times-table - 10 times-table	**Number** *Multiplication and division* - Making equal groups - Sharing and grouping - Dividing by 2 - Odd and even numbers - Dividing by 5 - Dividing by 10 - Bar modelling **Statistics** *Statistics* - Making tally charts - Creating pictograms - Interpreting pictograms - Block diagrams - Solving word problems **Measurement** *Length and height* - Measuring in centimetres - Measuring in metres - Comparing lengths	**Geometry** *Properties of shapes* - Recognising 2D and 3D shapes - Drawing 2D shapes - Counting sides on 2D shapes - Counting vertices on 2D shapes - Finding lines of symmetry - Sorting 2D shapes - Making patterns with 2D shapes - Counting faces on 3D shapes - Counting edges on 3D shapes - Counting vertices on 3D shapes - Sorting 3D shapes - Making patterns with 3D shapes **Number** *Fractions* - Introducing whole and parts - Making equal parts	**Geometry** *Position and direction* - Describing movement - Describing turns - Describing movement and turns - Making patterns with shapes **Number** *Problem solving and efficient methods* - Using number facts - Using number facts and equivalence - Using a 100-square - Missing numbers - Mental addition and subtraction - Efficient subtraction - Solving problems using the four operations	**Measurement** *Time* - Telling time and writing time to the hour and the half hour - Telling time to the quarter hour - Telling time to 5 minutes - Minutes in an hour - Finding durations of time - Comparing durations of time - Finding the end time - Finding the start time - Hours in a day *Weight volume and temperature* - Comparing mass - Measuring mass in grams - Measuring mass in kilograms - Comparing volume

	- Finding 10 more and 10 less - Adding and subtracting 10s - Adding a 2-digit and 1-digit number - Subtracting a 1-digit number from a 2-digit number - Adding two 2-digit numbers - Subtracting a 2-digit number from another 2-digit number - Adding three 1-digit numbers - Solving word problems – the bar model	- Solving word problems	- Ordering lengths - Solving word problems	- Recognising a half - Finding a half - Recognising a quarter - Finding a quarter - Unit fractions - Understanding other fractions - ½ and 2/4 - Finding ¾ - Understanding a whole - Understanding whole and parts - Counting in halves - Counting in quarters		- Measuring volume in millilitres - Measuring volume in litres - Measuring temperature using a thermometer - Reading thermometers
1, 2, 5, 10 & 3 multiplication facts taught through the year						
Year 3	**Number** *Place value within 1000* - Counting in 100s - Representing numbers to 1000 - 100s, 10s and 1s - The number line to 1000 - Finding 1, 10 and 100 more or less - Comparing numbers to 1000 - Ordering numbers to 1000 - Counting in 50s	**Number** *Addition and subtraction* - Addition and subtraction patterns - Adding two 3-digit numbers - Subtracting a 3-digit number from a 3-digit number - Estimating answers to	**Number** *Multiplication and Division* - Comparing multiplication and division statements - Related multiplication calculations -Multiplying and dividing a 2-digit number by a 1-digit number	**Measurement** *Length* - Measuring length - Equivalent lengths (m and cm/cm and mm) - Comparing lengths - Adding lengths - Subtracting lengths - Perimeter **Number**	**Number** *Fractions* - Equivalent fractions - Comparing fractions - Ordering fractions - Adding and subtracting fractions - Fractions of measures **Number**	**Geometry** *Angles and properties of shapes* - Turns and angles - Right angles in shapes - Comparing angles - Drawing accurately - Types of line - Recognising and describing 2D shapes

	Number *Addition and Subtraction* - Adding and subtracting 100s - Adding and subtracting 3-digit numbers and 1s - Adding a 3-digit number and 1s - Subtracting 1s from a 3-digit number - Adding and subtracting a 3-digit number and 10s - Adding a 3-digit number and 10s - Subtracting 10s from a 3-digit number - Adding and subtracting a 3-digit and 2-digit number - Subtracting a 2-digit number from a 3-digit number	additions and subtractions - Checking strategies - Problem solving **Number** *Multiplication and Division* - Equal grouping - Multiplying and dividing by 3 - Multiplying and dividing by 4 - Multiplying and dividing by 8 - Understanding divisibility - Related facts	- **Measurement** *Money* - Pounds and pence - Converting pounds and pence - Adding money - Subtracting amounts of money - **Statistics** *Statistics* - Pictograms - Bar charts - Tables	*Fractions* - Unit and non-unit fractions - Making the whole - Tenths - Fractions as numbers - Fractions of a set of objects	*Time* - Months and years - Hours in a day - Estimating time - Telling time to 5 minutes - Telling time to the minute - Finding the duration - Comparing duration - Finding start and end times - Measuring time in seconds	- Recognising and describing 3D shapes - Constructing 3D shapes **Measurement** *Mass* - Measuring mass - Comparing masses - Adding and subtracting mass **Measurement** *Capacity* - Measuring capacity - Comparing capacities - Adding and subtracting capacities
4, 8, 6 & 11 multiplication facts taught and embedded through the year						
Year 4	**Number** *Number and place value* - Numbers to 1000 - Rounding to the nearest 10	**Number** *Addition and subtraction* - Equivalent distance - Estimating answers to	**Number** *Multiplication and Division* - Using written methods to multiply	**Number** *Fractions* - Tenths and hundredths - Equivalent fractions	**Number** *Decimals* - Making a whole - Writing decimals	**Statistics** - Charts and tables - Line graphs **Geometry**

	- Rounding to the nearest 100 - Counting in 1000s - Representing 4-digit numbers - 1000s, 100s, 10s and 1s - The number line to 10,000 - Roman numerals to 100 - Finding 1000 more or less - Comparing 4-digit numbers - Ordering numbers to 10,000 - Rounding to the nearest 1000 - Counting in 25s - Negative numbers **Number** *Addition and subtraction* - Adding and subtracting 1s, 10s, 100s and 1000s - Adding and subtracting two 4-digit numbers	addition and subtraction calculations - Checking strategies **Measurement** *Perimeter* - Kilometres - Perimeter of a rectangle - Perimeter of rectilinear shapes **Number** *Multiplication and division* - Multiplying and dividing by multiples of 10 and 100 - Multiplying by 0 and 1 - Dividing by 1 - Multiplying and dividing by 6, 9, 7, 11 and 12	- Multiplying a 2-digit number by a 1-digit number - Multiplying a 3-digit number by a 1-digit number - Multiplying more than two numbers - Dividing a 2-digit number by a 1-digit number - Division with remainders - Dividing a 3-digit number by a 1-digit number **Measurement** *Area* - What is area? - Counting squares - Making shapes - Comparing area	- Simplifying fractions - Fractions greater than 1 - Adding fractions - Subtracting fractions - Calculating fractions of a quantity **Number** *Decimals* - Tenths - Dividing by 10 - Hundredths - Dividing by 100	- Comparing decimals - Ordering decimals - Rounding decimals - Halves and quarters **Measurement** *Money* - Pounds and pence -Pounds, tenths and hundredths - Ordering amounts of money - Rounding money - Use rounding to estimate money **Measurement** *Time* - Units of time - Converting times	*Angles and 2D Shapes* - Identifying angles - Comparing and ordering angles - Identifying regular and irregular shapes - Classifying triangles - Classifying and comparing quadrilaterals - Deducing facts about shapes - Lines of symmetry **Geometry** *Position and direction* - Describing position - Drawing on a grid - Reasoning on a grid - Moving on a grid - Describing movement on a grid
7, 9 and 12 multiplication facts taught and embedded through the year						

Year 5	**Number** *Place value* - Numbers to 10,000 - Rounding to the nearest 10, 100 and 1000 - 10000s, 1000s, 100s, 10s and 1s - The number line to 100,000 - Comparing and ordering numbers to 100,000 - Rounding numbers within 100,000 - Roman numerals to 10,000 - 100000s, 10000s, 1000s, 100s, 10s and 1s - Number line to 1,000,000 - Comparing and ordering numbers to 1,000,000 - Rounding numbers to 1,000,000 - Negative numbers - Counting in 10s, 100s, 1000s, 10000s - Number sequences **Number** *Addition and subtraction*	**Statistics** *Graphs and tables* - Interpreting tables - Two-way tables - Interpreting line graphs - Drawing line graphs **Number** *Multiplication and division* - Multiples - Factors - Prime numbers - Using factors - Squares - Cubes -Inverse operations - Multiplying and dividing whole numbers by 10, 100 and 1000 - Multiplying and dividing by multiples of 10, 100 and 1000 **Measurement** *Area and perimeter* - Measuring perimeter - Calculating perimeter - Calculating area - Comparing area - Estimating area	**Number** *Multiplication and division* - Multiplying and dividing numbers up to 4 digits by a 1-digit number - Multiplying 2-digit numbers - Multiplying a 3-digit number by a 2-digit number - Multiplying a 4-digit number by a 2-digit number - Division with remainders **Number** *Fractions, decimals and percentages* - Equivalent fractions - Converting improper fractions to mixed fractions - Converting mixed numbers to improper fractions - Number sequences - Comparing and ordering fractions - Fractions as division	**Number** *Fractions, decimals and percentages* - Multiplying fractions - Calculating fractions of amounts - Using fractions as operators - Writing decimals - Decimals as fractions - Understanding thousandths - Writing thousandths as decimals - Ordering and comparing decimals - Rounding decimals - Understanding percentages - Percentages as fractions and decimals - Equivalent fractions, decimals and percentages	**Number** *Fractions, decimals and percentages* - Adding and subtracting decimals - Decimal sequences - Multiplying and dividing decimals by 10, 100 and 1000 **Geometry** *Properties of shapes* - Measuring angles in degrees - Measuring with a protractor - Drawing lines and angles accurately - Calculating angles on a straight line - Calculating angles around a point - Calculating length and angles in shapes - Recognising and drawing parallel lines - Recognising and drawing perpendicular lines	**Geometry** *Position and direction* - Reflection - Reflection with coordinates - Translation - Translation with coordinates **Measurement** *Converting units* - Metric units - Imperial units of length - Imperial units of capacity - Converting units of time - Timetables **Measurement** *Volume and capacity* - What is volume? - Comparing volumes - Estimating volume - Estimating capacity

	- Adding and subtracting whole numbers with more than 4 digits - Using rounding to estimate and check answers - Mental addition and subtraction - Using inverse operations		- Adding and subtracting fractions with the same denominator - Adding and subtracting fractions		- Reasoning about parallel and perpendicular lines - Regular and irregular polygons - Reasoning about 3D shapes	
Year 6	**Number** *Number and place value* - Numbers to 1,000,000 - Numbers to 10,000,000 - Number line to 10,000,000 - Comparing and ordering numbers to 10,000,000 - Rounding numbers - Negative numbers **Number** *Four operations* - Problem solving - Multiplying and dividing numbers up to 4 digits by a 2 digit number - Multiplying numbers up to 4 digits by a 1 digit number - Common factors - Common multiples	**Fractions** - Simplifying fractions - Fractions on a number line - Comparing and ordering fractions - Adding and subtracting fractions - Multiplying a fraction by a whole number - Multiplying a fraction by a fraction - Dividing a fraction by a whole number - Four rules with fractions - Calculating fractions of amounts **Geometry** *Position and direction* - Plotting coordinates	**Number** *Decimals* - Multiplying by 10, 100 and 1000 - Dividing by multiples of 10, 100 and 1000 - Decimals as fractions - Fractions as decimals - Multiplying decimals - Dividing decimals **Number** *Percentages* - Percentages of - Find missing values - Converting fractions to percentages - Equivalent fractions, decimals and percentages	SATS REVISION and **Measure** *Imperial and metric measure* - Metric measures - Converting metric measures - Miles and km - Imperial measures **Measure** *Perimeter, area and volume* - Shapes with the same area - Area and perimeter - Area of a triangle - Volume of a cuboid **Ratio and Proportion** - Ratio - Scale drawings - Scale factors - Similar shapes **Geometry** *Properties of shapes* - Measuring with a protractor - Drawing shapes accurately - Angles in triangles - Angles in polygons - Vertically opposite angles	

	- Recognising prime numbers up to 100 - Squares and cubes - Order of operations - Brackets - Mental calculations - Reasoning from unknown facts	- Plotting translations and reflections - Reasoning about shapes with coordinates	**Algebra** - Finding a rule - Using a rule - Formulae - Solving equations	- Equal distance - Parts of a circle - Nets **Statistics** - The mean - Introducing pie charts - Reading and interpreting pie charts - Fractions and pie charts - Percentages and pie charts - Interpreting line graphs - Interpret and construct pie charts and line graphs and use these to solve problems