



Maths Long Term Plan

Year 1	Autumn		Spring		Summer	
	<p>Numbers to 10: Counting to 10 Counting objects to 10 Writing to 10 Counting with 0 Comparing objects Ordering numbers Comparing numbers</p> <p>Number Bonds: Making number bonds</p> <p>Addition Within 10: Ways to add Add by counting on Completing number sentences Making addition stories Solving picture problems</p>	<p>Subtraction within 10: Ways to subtract Subtracting using number bonds Subtracting by counting back Making subtraction stories Solving picture problems</p> <p>Addition and subtraction</p> <p>Positions: Positional language</p> <p>Numbers to 20: Counting to 20 Writing to 20 Comparing numbers Ordering numbers Number patterns</p>	<p>Addition and subtraction within 20: Ways to add Add by making 10 Add by adding ones Counting back Subtract ones Subtract from 10 Addition and Subtraction facts</p> <p>Shapes and Patterns: Recognising solids, spheres, cubes, cuboids, pyramids Recognise 2D shapes in everyday environment Grouping shapes Making patterns</p> <p>Length: Comparing height and length Measuring length using things and a ruler Measuring height and length using body parts</p>	<p>Numbers to 40: Counting to 40 Writing numbers to 40 Counting in tens and ones Comparing numbers Finding how much more Making number patterns</p> <p>Addition and Subtraction Word Problems</p> <p>Multiplication: Making equal groups Adding equal groups Making equal rows Making doubles Solving word problems</p>	<p>Division: Grouping equally Sharing equally</p> <p>Fractions: Making halves Making groups</p> <p>Numbers to 100: Counting to 100 Finding tens and ones Comparing numbers Making number patterns</p> <p>Time: Telling time to the hour Telling time to half hour Using next, before, after Estimating duration of time Comparing time Using a calendar</p>	<p>Money: Recognising coins Recognising notes</p> <p>Volume and Capacity: Comparing volume and capacity using 'More than' less than, full and empty Find volume and capacity of a container using non-standard units Describing volume using half and quarter</p> <p>Mass: Compare mass using heavy, light heavier than, lighter than, as heavy as Find mass of object using non-standard units</p> <p>Space: Positions, movements, making turns</p>

Year 2	Autumn		Spring		Summer	
	<p>Numbers to 100: Count numbers up to 100 Place value Compare numbers Number bonds Number patterns</p> <p>Addition and Subtraction : Single digit to 2 digit number Simple addition of 10s and 1s Two 2 digit numbers Subtracting units from a 2 digit number</p>	<p>Multiplication of 2, 5 and 10: Multiplication as equal groups Times tables Multiplying by 2,5 and 10</p> <p>Multiplication and Division of 2, 5 and 10: Grouping Sharing Dividing by 2, 5 and 10 Using multiplication and division skills Odd and even numbers</p> <p>Length: Measure length using standard unit of measure Measuring in centimetres Comparing in meters Comparing in centimetres Comparing length of lines</p>	<p>Mass: Measuring mass in kilograms, grams Comparing mass of 2 objects Comparing mass of 3 objects Use scales and balances to measure mass accurately</p> <p>Temperature: Reading temperature Estimating temperature</p> <p>Picture Graphs: Read and interpret a picture graph</p>	<p>More Word Problems: Using the bar model</p> <p>Money: Writing amounts of money Recognise value of notes Recognise value of coins Create equal amounts of money using different coins To exchange denominations of money for different coins Calculate change from £100 or less Use bar model</p> <p>Two-Dimensional Shapes</p> <p>Three-Dimensional Shapes</p>	<p>Fractions: Halves Quarters Thirds Use numerator and denominator Recognise equivalent fractions Compare and order Count the number of wholes and parts to form mixed numbers</p>	<p>Time: Tell and write time to 5 minute intervals Sequence events of day Draw hands on clock</p> <p>Volume</p>

Year 3	Autumn		Spring		Summer	
	<p>Numbers to 1000: Counting in 100s, 10s and 1s Place value Comparing and ordering numbers Counting in 50s Number Patterns Counting in 4s and 8s</p> <p>Addition and subtraction</p>	<p>Multiplication and division: Multiplying by 3, 4, 8 Dividing by 3, 4 and 8 Multiplying 2-digit numbers Dividing 2-digit numbers</p>	<p>Length: Writing length in metres, centimetres, kilometres Comparing lengths</p> <p>Mass: Reading weighing scales</p> <p>Volume: Measuring in millilitres And litres</p>	<p>Money: Naming, adding and subtracting</p> <p>Time: Measuring in seconds, minutes and hours Changing minutes to seconds Seconds to minutes</p> <p>Picture and Graphs: Picture graphs and bar graphs</p>	<p>Fractions: Counting in tenths Adding fractions Subtracting fractions Finding equivalent fractions Finding the simplest fraction Sharing</p> <p>Angles: Making angles Finding Right angles in shapes Comparing angles Making turns</p>	<p>Lines and Shapes: Measuring total length around shape Measuring perimeter Calculating perimeter</p>

Year 4	Autumn		Winter		Spring	
	<p>Numbers to 100 Counting in 100s and 25s Counting in 1000s Counting in 1000s, 100s, 10s and 1s Using places value Comparing and ordering numbers Making number patterns Counting in 6s, 7s and 9s Rounding numbers Rounding numbers to estimate Addition and subtracting within 10 000 Finding sums Adding with renaming Adding using mental strategies Finding differences Subtracting without renaming Subtracting with renaming Subtracting using mental strategies Solving word problems</p>	<p>Multiplication and division Multiplying by 6,7, 9, 11, 12 Dividing by 6, 7, 9 Multiplying and dividing by 11 and 12 Dividing with remainder Solving word problems Multiplying by 0 dividing by 1 Multiplying the same two numbers Multiplying 3 numbers Multiplying multiples of 10 Multiplying 2-Digit numbers Multiplying multiples of 100 Multiplying 3-Digit numbers Dividing 2-Digit numbers Dividing 3-Digit numbers</p>	<p>Graphs Drawing and reading picture graphs, bar graphs and line graphs Fractions Counting in 100ths Writing mixed numbers Showing mixed numbers on a number line Finding equivalent fractions Simplifying mixed numbers Simplifying improper fractions Adding fractions Subtracting fractions Solving word problems Time Telling time on a 24-Hour clock Changing time in minutes to seconds and hours to minutes Solving problems on duration of time Changing years to months and weeks to days Solving word problems</p>	<p>Decimals Writing tenths Writing hundredths Writing decimals Comparing and ordering decimals Making number patterns Rounding decimals Writing fractions as decimals Dividing whole numbers by 10 Dividing whole numbers by 100 Money Writing amounts of money Comparing amounts of money Rounding amounts of money Solving problems involving money Estimating amounts of money</p>	<p>Mass, Volume, Length Measuring mass Converting units of mass Measuring volume Converting units of volume Measuring height Converting units of length Measuring perimeters in different units Solving problems involving scale reading Area of figures Measuring the surface that an object covers Measuring area</p>	<p>Geometry Knowing types of angles Comparing angles Classifying triangles And quadrilaterals Identifying symmetrical figures Lines of Symmetry Sorting shapes Position and Movement Roman Numerals Writing 1 to 20 Writing 1-100</p>

Year 5	Autumn		Spring		Summer	
	<p>Numbers to 1000000 Reading and writing numbers Comparing Making number patterns Rounding numbers</p> <p>Whole Numbers: Addition and Subtraction Counting on to add Counting on to subtract Adding within 1000000 Subtracting within 1000000</p>	<p>Whole Numbers: Multiplication and Division Finding multiples Finding factors Finding prime numbers Finding square and cube numbers Multiplying by 10, 100 and 1000 Multiplying 2-digit and 3-digit numbers by a Single Digit Multiplying 4-digit Numbers Multiplying a 2-digit Number by a 2 digit number Multiplying a 3-digit Number by a 2 digit number dividing by 10, 100, 1000 Dividing 3-digit and 4-digit Numbers Dividing 4-digit Numbers Dividing with Remainder</p> <p>Whole Numbers: Word Problems</p>	<p>Graphs Reading tables Reading line graphs</p> <p>Fractions Dividing to make Fractions Writing Improper Fractions and Mixed Numbers Finding Equivalent Fractions Comparing and Ordering Fractions Making Number Pairs Adding Fractions Subtracting Fractions Multiplying Fractions by Whole Numbers Multiplying Mixed Numbers by Whole Numbers</p>	<p>Decimals</p> <p>Percentages</p>	<p>Geometry Knowing Types of Angles Measuring Angles Investigating Angles on a Line Investigating Angles at a Point Drawing Angles Drawing Lines and Angles Describing Squares and Rectangles Investigating Angles in Squares and Rectangles Solving Problems Involving Angles in Rectangles Investigating Regular Polygons</p> <p>Position and Movement Naming and plotting points Describing translations Describing movements Successive reflections</p>	<p>Measurements</p> <p>Area and Perimeter</p> <p>Volume</p> <p>Roman Numerals Writing numerals to 1000 Writing years</p>

Year 6	Autumn		Spring		Summer	
	<p>Numbers to 10 million Reading and Writing Numbers to 10 Million Comparing Numbers to 10 Million Comparing and Ordering Numbers to 10 Million Rounding Numbers</p> <p>Four operations on whole numbers Using Mixed Operations Multiplying by 2-Digit Numbers Dividing by 2-Digit Numbers Solving Word Problems Finding Common Multiples Finding prime numbers</p>	<p>Fractions Simplifying fractions Comparing and ordering fractions Adding and subtracting fractions Multiplying fractions Dividing a fraction by a whole number</p> <p>Decimals Writing and reading decimals Dividing whole numbers Writing fractions as decimals Multiplying decimals Dividing decimals Multiplying a Decimal by a 2-Digit Whole Number Dividing a Decimal by a 2-Digit Whole Number Dividing a Decimal by a 2-Digit Whole Number</p>	<p>Measurements</p> <p>Word Problems</p>	<p>Percentage Finding the Percentage of a Number Finding the Percentage of a Quantity Finding Percentage Change Using Percentage to Compare</p> <p>Ratio</p> <p>Algebra Describing a Pattern Writing Algebraic Expressions Writing and Evaluating Algebraic Expressions Writing Formulae Using Formulae Solving Equations</p>	<p>Area and Perimeter Finding area and perimeter of rectangles, triangles, parallelograms</p> <p>Volume Finding the volume of cubes and cuboids</p> <p>Geometry Investigating Vertically Opposite Angles Solving Problems Involving Angles Investigating Angles in Triangles Investigating Angles in Quadrilaterals Solving Problems Involving Angles in Triangles and Quadrilaterals Naming Parts of a Circle Solving Problems Involving Angles in a Circle Drawing Quadrilaterals Drawing Triangles</p> <p>Drawing Nets of Three-Dimensional Shapes</p>	<p>Position and Movement Showing Negative Numbers Describing Position Drawing Polygons on a Coordinate Grid Describing Translations Describing Reflections Describing Movements Using Algebra to Describe Position Using Algebra to Describe Movements</p> <p>Graphs and Averages Understanding Averages Calculating the Mean Solving Problems Involving the Mean Showing Information of Graphs Reading Pie Charts Reading Line Graphs Converting Miles into Kilograms Reading Line Graphs</p> <p>Negative numbers Adding and subtracting negative numbers Using negative numbers</p>