

# MATHS MEDIUM TERM PLANS

Spring 2023-2024

# YEAR 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number <b>Place value (within 10)</b>					Number <b>Addition and subtraction (within 10)</b>					Geometry Shape	Consolidation
Spring	Number <b>Place value (within 20)</b>			Number <b>Addition and subtraction (within 20)</b>			Number <b>Place value (within 50)</b>		Measurement <b>Length and height</b>		Measurement <b>Mass and volume</b>	
Summer	Number <b>Multiplication and division</b>			Number <b>Fractions</b>		Geometry <b>Position and direction</b>	Number <b>Place value (within 100)</b>		Measurement <b>Money</b>	Measurement <b>Time</b>		Consolidation

# YEAR 1 - SPRING A

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Number: Place Value (within 20)			Number: Addition and Subtraction (within 20)		
<b>Small Steps Progression</b>	Count within 20 Understand 10 Understand 11,12,13 Understand 14,15,16	Understand 17,18,19 Understand 20 1 more and 1 less The numberline to 20	Use a numberline to 20 Estimate on a numberline to 20 Compare numbers to 20 Order numbers to 20	Add by counting on Add ones using number bonds Find and make number bonds to 20	Doubles Near doubles Subtract ones using number bonds Subtraction counting back	Subtraction (finding the difference) Related facts Missing number problems
<b>National Curriculum Links</b>	Count to 100, forwards/backwards, starting with 0 or 1, or from any given number. Count, read and write numbers to 20 in numerals and words. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least. Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s Given a number identify one more and one less.			Read, write and interpret mathematical statements involving addition, subtraction, equals signs. Represent and use number bonds and related subtraction facts Add and subtract one digit and two digit numbers Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.		

# YEAR 1 - SPRING B

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Number: Place Value (within 50)		Measurement – Length and Height		Measurement – Mass and Volume	
<b>Small Steps Progression</b>	Count from 20 to 50 20, 30, 40 and 50 Count by making groups of tens Groups of tens and ones	Partition into tens and ones The number line to 50 Estimate on a number line to 50 1 more, 1 less	Compare lengths and heights Measure length using objects	Measure length in centimetres	Heavier and lighter Measure mass Compare mass Full and empty	Compare volume Measure capacity Compare capacity
<b>National Curriculum Links</b>	Count to 100, forwards/backwards, starting with 0 or 1, or from any given number. Count, read and write numbers to 20 in numerals and words. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least. Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s Given a number identify one more and one less.		Compare, describe and solve practical problems for: lengths and height; mass/weight; capacity and volume; time  Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume; time		Compare, describe and solve practical problems for: lengths and heights; mass/weight; capacity and volume; time  Measure and begin to record the following: lengths and heights; mass/weights; capacity and volume; time	

# YEAR 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number <b>Place value</b>				Number <b>Addition and subtraction</b>				Geometry <b>Shape</b>			
Spring	Measurement <b>Money</b>	Number <b>Multiplication and division</b>					Measurement <b>Length and height</b>		Measurement <b>Mass, capacity and temperature</b>			
Summer	Number <b>Fractions</b>			Measurement <b>Time</b>			<b>Statistics</b>		Geometry <b>Position and direction</b>		<b>Consolidation</b>	

# YEAR 2 - SPRING A

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Measurement - Money		Number: Multiplication and Division			
<b>Small Steps Progression</b>	<p>Count money – pence</p> <p>Count money – pounds (notes and coins)</p> <p>Count money – pounds and pence</p> <p>Choose notes and coins</p>	<p>Make the same amount</p> <p>Compare amounts of money</p> <p>Calculate with money</p> <p>Make a pound</p> <p>Find change</p> <p>Two-step problems</p>	<p>Recognise equal groups</p> <p>Make equal groups</p> <p>Add equal groups</p> <p>Introduce the multiplication symbol</p>	<p>Multiplication sentences</p> <p>Use arrays</p> <p>Make equal groups – grouping</p> <p>Make equal groups – sharing</p>	<p>The 2 times-table</p> <p>Divide by 2</p> <p>Doubling and halving</p>	<p>Odd and even numbers</p> <p>The 10 times-table</p> <p>Divide by 10</p>
<b>National Curriculum Links</b>	<p>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p>		<p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p> <p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p>			

# YEAR 2 - SPRING B

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Number: Multiplication and Division	Measurement – Length and Height		Measurement – Mass, capacity and temperature		
<b>Small Steps Progression</b>	<p>The 5 times-table</p> <p>Divide by 5</p> <p>The 5 and 10 times-tables</p>	<p>Measure in centimetres</p> <p>Measure in metres</p>	<p>Compare lengths and heights</p> <p>Order lengths and heights</p> <p>Four operations with lengths and heights</p>	<p>Compare mass</p> <p>Measure in grams</p> <p>Measure in kilograms</p> <p>Four operations with mass</p>	<p>Compare volume and capacity</p> <p>Measure in millilitres</p> <p>Measure in litres</p>	<p>Four operations with volume and capacity</p> <p>Temperature</p>
<b>National Curriculum Links</b>	See previous page	<p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels</p> <p>Compare and order lengths, mass, volume/capacity and record the results using &lt;, &gt; and =</p> <p>Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures</p> <p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, multiplication and division facts, including problems in contexts</p>		<p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels</p> <p>Compare and order lengths, mass, volume/capacity and record the results using &lt;, &gt; and =</p>		

# YEAR 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number <b>Place value</b>			Number <b>Addition and subtraction</b>				Number <b>Multiplication and division A</b>				
Spring	Number <b>Multiplication and division B</b>			Measurement <b>Length and perimeter</b>			Number <b>Fractions A</b>		Measurement <b>Mass and capacity</b>			
Summer	Number <b>Fractions B</b>		Measurement <b>Money</b>		Measurement <b>Time</b>			Geometry <b>Shape</b>		Statistics		Consolidation



# YEAR 3 - SPRING A

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Number: Multiplication and Division B			Measurement: Length and Perimeter		
<b>Small Steps Progression</b>	<p>Multiples of 10</p> <p>Related calculations</p> <p>Reasoning about multiplication</p>	<p>Multiply a 2-digit number by a 1-digit number – no exchange</p> <p>Multiply a 2-digit number by a 1-digit number – with exchange</p> <p>Link multiplication and division</p>	<p>Divide a 2-digit number by a 1-digit number – no exchange</p> <p>Divide a 2-digit number by a 1-digit number – flexible partitioning</p> <p>Divide a 2-digit number by a 1-digit number – with remainders</p> <p>Scaling</p> <p>How many ways?</p>	<p>Measure in metres and centimetres</p> <p>Measure in millimetres</p> <p>Measure in centimetres and millimetres</p> <p>Metres, centimetres and millimetres</p>	<p>Equivalent lengths (metres and centimetres)</p> <p>Equivalent lengths (centimetres and millimetres)</p> <p>Compare lengths</p> <p>Add lengths</p>	<p>Subtract lengths</p> <p>What is perimeter?</p> <p>Measure perimeter</p> <p>Calculate perimeter</p>
<b>National Curriculum Links</b>	<p>Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</p> <p>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects</p>			<p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p> <p>Measure the perimeter of simple 2-D shapes</p>		

# YEAR 3 - SPRING B

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Number: Fractions A			Measurement – Mass and Capacity		
<b>Small Steps Progression</b>	<p>Understand the denominators of unit fractions</p> <p>Compare and order unit fractions</p> <p>Understand the numerators of non-unit fractions</p> <p>Understand the whole</p>	<p>Compare and order non-unit fractions</p> <p>Fractions and scales</p> <p>Fractions on a number line</p>	<p>Count in fractions on a number line</p> <p>Equivalent fractions on a number line</p> <p>Equivalent fractions as bar models</p>	<p>Use scales</p> <p>Measure mass in grams</p> <p>Measure mass in kilograms and grams</p> <p>Equivalent masses (kilograms and grams)</p>	<p>Compare mass</p> <p>Add and subtract mass</p> <p>Measure capacity and volume in millilitres</p> <p>Measure capacity and volume in litres and millilitres</p>	<p>Equivalent capacities and volumes (litres and millilitres)</p> <p>Compare capacity and volume</p> <p>Add and subtract capacity and volume</p>
<b>National Curriculum Links</b>	<p>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</p> <p>Compare and order unit fractions, and fractions with the same denominators</p> <p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p> <p>Recognise and show, using diagrams, equivalent fractions with small denominators</p>			<p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p>		

# YEAR 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number <b>Place value</b>				Number <b>Addition and subtraction</b>			Measurement <b>Area</b>	Number <b>Multiplication and division A</b>			Consolidation
Spring	Number <b>Multiplication and division B</b>			Measurement <b>Length and perimeter</b>		Number <b>Fractions</b>			Number <b>Decimals A</b>			
Summer	Number <b>Decimals B</b>	Measurement <b>Money</b>		Measurement <b>Time</b>		Consolidation	Geometry <b>Shape</b>		Statistics	Geometry <b>Position and direction</b>		

# YEAR 4 - SPRING A

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Number: Multiplication and Division B			Measurement – Length and Perimeter	Number - Fractions	
<b>Small Steps Progression</b>	Factor pairs Use factor pairs Multiply by 10 Multiply by 100 Divide by 10 Divide by 100	Related facts – multiplication and division Informal written methods for multiplication Multiply a 2-digit number by a 1-digit number Multiply a 3-digit number by a 1-digit number	Divide a 2-digit number by a 1-digit number (1) Divide a 2-digit number by a 1-digit number (2) Divide a 3-digit number by a 1-digit number Correspondence problems	Measure in kilometres and metres Equivalent lengths (kilometres and metres) Perimeter on a grid Perimeter of a rectangle	Perimeter of rectilinear shapes Find missing lengths in rectilinear shapes Calculate perimeter of rectilinear shapes Perimeter of regular polygons Perimeter of polygons	Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers
<b>National Curriculum Links</b>	Recognise and use factor pairs and commutativity in mental calculations Recall multiplication and division facts for multiplication tables up to $12 \times 12$ Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers			Convert between different units of measure [for example, kilometre to metre; hour to minute]  Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	See next page	

# YEAR 4 - SPRING B

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Number: Fractions			Number – Decimals A		
<b>Small Steps Progression</b>	<p>Compare and order mixed numbers</p> <p>Understand improper fractions</p> <p>Convert mixed numbers to improper fractions</p> <p>Convert improper fractions to mixed numbers</p>	<p>Equivalent fractions on a number line</p> <p>Equivalent fraction families</p> <p>Add two or more fractions</p> <p>Add fractions and mixed numbers</p>	<p>Subtract two fractions</p> <p>Subtract from whole amounts</p> <p>Subtract from mixed numbers</p>	<p>Tenths as fractions</p> <p>Tenths as decimals</p> <p>Tenths on a place value chart</p> <p>Tenths on a number line</p>	<p>Divide a 1-digit number by 10</p> <p>Divide a 2-digit number by 10</p>	<p>Hundredths as fractions</p> <p>Hundredths as decimals</p> <p>Hundredths on a place value chart</p> <p>Step 10 Divide a 1- or 2-digit number by 100</p>
<b>National Curriculum Links</b>	<p>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3)</p> <p>Recognise and show, using diagrams, families of common equivalent fractions</p> <p>Add and subtract fractions with the same denominator</p>			<p>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3)</p> <p>Recognise and write decimal equivalents of any number of tenths or hundredths</p> <p>Compare numbers with the same number of decimal places up to 2 decimal places</p> <p>Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p> <p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10</p> <p>Recognise and show, using diagrams, families of common equivalent fractions</p>		