

**Maths – Reception AUTUMN**

	<b>Numbers to 5 (3 weeks)</b>	<b>Comparing groups within 5 (2 weeks)</b>	<b>Shape (3D and 2D shapes) (2 weeks)</b>	<b>Change within 5 (2weeks)</b>	<b>Number bonds within 5 (1 week)</b>	<b>Space (1 week)</b>
Teaching Sequence	<ul style="list-style-type: none"> <li>Counting 1,2 and 3</li> <li>Counting 4</li> <li>Count up to 5 objects reliably</li> <li>Understand that numbers can be shown in different representations</li> <li>Recognise the numerals 1, 2, 3, 4 and 5</li> <li>Match groups of objects to the correct numeral</li> <li>Comparing quantities of identical objects</li> </ul>	<ul style="list-style-type: none"> <li>Noticing inequality of groups</li> <li>Comparing groups using more and fewer</li> <li>Identifying more and fewer in different representations</li> <li>Finding something that has more or fewer</li> <li>Comparing groups</li> <li>Comparing groups of non-identical objects using one-to-one correspondence</li> <li>Comparing groups by matching or subitising</li> <li>Representing and comparing groups in a variety of ways</li> </ul>	<ul style="list-style-type: none"> <li>Exploring properties of everyday shapes</li> <li>Exploring, describing and comparing the properties of 3D shapes</li> <li>Similarities and differences between 3D shapes</li> <li>Naming 2D shapes</li> <li>Identifying 2D shapes and describing similarities and differences</li> <li>Identifying 2D shapes within 3D shapes</li> <li>Identifying 2D shapes in different contexts</li> </ul>	<ul style="list-style-type: none"> <li>Adding one more</li> <li>Exploring one more, with numbers to 5</li> <li>Finding one less</li> <li>Exploring one less, with numbers to 5</li> </ul>	<ul style="list-style-type: none"> <li>Splitting a group of objects into two groups</li> <li>Breaking a whole into two distinct parts</li> <li>Recognising different representations of two parts</li> <li>Finding different ways to break groups into parts</li> <li>Finding number bonds to 3, 4 and 5</li> </ul>	<ul style="list-style-type: none"> <li>Understanding positional and directional language in practical contexts</li> <li>Using positional language to describe the position of items</li> <li>Describing movement using the language up, down and across</li> <li>Using directional and positional language to describe a route</li> </ul>

**Maths – Reception SPRING**

	<b>Numbers to 10 (2 weeks)</b>	<b>Comparing numbers within 10 (1 week)</b>	<b>Addition to 10 (1 week)</b>	<b>Measure (Length, Height, Weight) (2 weeks)</b>	<b>Number bonds to 10 (2 weeks)</b>	<b>Subtraction (1 week)</b>	<b>Exploring patterns (2 weeks)</b>
Teaching Sequence	<ul style="list-style-type: none"> <li>Counting to 8</li> <li>Cardinality to 8</li> <li>Counting different representations up to 8</li> <li>Representations of 8</li> <li>Counting to 8 using abstraction</li> <li>Cardinality of 9 and 10</li> <li>Counting up to 10</li> <li>Counting different representations up to 10</li> <li>Different representations of 9 and 10</li> <li>Count up to 10 from a larger group</li> </ul>	<ul style="list-style-type: none"> <li>Compare groups up to 10</li> <li>Compare and represent numbers to 10</li> <li>More than and fewer than</li> <li>How many more?</li> <li>Finding the difference</li> </ul>	<ul style="list-style-type: none"> <li>Recapping the language of parts and wholes</li> <li>Combining two parts to make a whole</li> <li>Identifying the whole</li> <li>Exploring misconceptions using the part-whole model</li> <li>Number stories using the part-whole model to 10</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to length – longer and shorter</li> <li>Comparing lengths using longer and shorter</li> <li>Understanding the relationship between length and height</li> <li>Understanding that objects need to be straight in order to compare them accurately; selecting an appropriate unit of measure</li> <li>Using non-standard units to measure distance</li> <li>Understanding that on a balance scale the heavier person or object tips down and the lighter one goes up</li> <li>Comparing the weights of two objects where the heavier object is bigger</li> <li>Comparing the weights of two objects that are a similar size</li> <li>Comparing the weights of two objects where the heavier object is smaller</li> <li>Using non-standard units to measure the weight of objects</li> </ul>	<ul style="list-style-type: none"> <li>Exploring the composition of 10</li> <li>Exploring the composition of 10, moving from concrete to pictorial representations</li> <li>Exploring the composition of 10 by reinforcing different representations of 10</li> <li>Using knowledge of number bonds to 10 to work out how many more</li> <li>Consolidating number bonds to 10</li> <li>Composition of 10</li> <li>Using the part-whole model to break 10 into two parts</li> <li>Identifying whole and parts when variation is a factor</li> <li>Using number bonds to 10 to break a whole into parts</li> <li>Exploring all the different number bonds to 10 to consolidate understanding</li> </ul>	<ul style="list-style-type: none"> <li>Identify number bonds to 10</li> <li>Using subtraction to identify a missing part to 10</li> <li>Using subtraction to identify a missing part to 10 when variation is a factor</li> <li>Using number bonds to identify missing parts</li> <li>Explore different number bonds to 10 to consolidate understanding</li> </ul>	<ul style="list-style-type: none"> <li>Exploring simple AB patterns with objects</li> <li>Continuing a simple pattern</li> <li>Discovering that patterns can vary</li> <li>Creating patterns</li> <li>Recognising patterns and representing them using different objects</li> <li>Exploring ABB patterns</li> <li>Continuing an ABB pattern</li> <li>Discovering that patterns can vary</li> <li>Creating patterns</li> <li>Recognising patterns and representing them using different objects</li> </ul>

	Counting on and counting back (2 weeks)	Numbers to 20 (1 week)	Numerical patterns (3 weeks)	Shape (Composing and decomposing shapes) (1 week)	Measure (Volume and capacity) (1 week)	Sorting (1 week)	Time (1 week)
Teaching Sequence	<ul style="list-style-type: none"><li>Counting fluently to 10</li><li>Counting on</li><li>Applying a first, then, now story structure to adding by counting on</li><li>Creating addition stories to practise flexible counting on</li><li>Counting fluently backwards from 10</li><li>Counting back a given amount</li><li>Exploring the inverse relationship of counting on and counting back</li><li>Creating subtraction stories to practise flexible taking away</li></ul>	<ul style="list-style-type: none"><li>Counting beyond 10</li><li>Counting to 20 using ten frames</li><li>One more and one less (being flexible with numbers 11–20)</li><li>Comparing numbers to 20</li><li>Representing numbers to 20</li></ul>	<ul style="list-style-type: none"><li>Introducing the concept of double</li><li>Recognising a double</li><li>Identifying a double where the arrangements of the two groups are not identical</li><li>Finding all double facts up to double 5</li><li>Applying double facts in new contexts</li><li>Understanding the concept of sharing</li><li>Sharing</li><li>Using sharing to find half</li><li>Spotting halving patterns</li><li>Using patterns to predict half</li><li>Understanding the importance of equal groups for fairness</li><li>Understanding that some groups of items cannot be shared equally into two equal groups</li><li>Beginning to recognise odd and even numbers</li><li>Recognising that there is a pattern in odd and even numbers</li><li>Applying knowledge of odd and even numbers</li></ul>	<ul style="list-style-type: none"><li>Looking at pattern blocks to see that new shapes can be made by combining shapes</li><li>Exploring how a shape can be decomposed into other shapes using paper folding activities</li><li>Experiencing building a combination of shapes as a single new shape</li><li>Combining different pattern blocks to compose a hexagon</li><li>Talking about 2D and 3D shapes and their attributes</li></ul>	<ul style="list-style-type: none"><li>Understanding that volume can be measured in cups</li><li>Recognising when a container is full</li><li>Comparing volume by identifying the more and less full of two identical containers</li><li>Comparing the capacity of containers of different sizes and shapes</li><li>Using non-standard units to measure capacity</li></ul>	<ul style="list-style-type: none"><li>What’s the same and what’s different?</li><li>Sorting objects where there are two distinct groups</li><li>Discovering that there is more than one way to sort</li><li>Sorting objects in more than one way</li><li>Sorting collections of objects</li></ul>	<ul style="list-style-type: none"><li>Why do we need to tell the time?</li><li>Ordering familiar events in a typical day</li><li>Begin to describe familiar events in order, using the language of time</li><li>Begin to use the language before and after, and be able to look at the</li><li>Order of events flexibly, from last to first, as well as from first to last</li><li>Use the language of time and realise the importance of sequence</li></ul>

Maths – YEAR 1 AUTUMN

	Number: Place Value within 10 (5-6 Weeks)	Number: + and – within 10 (6-7 Weeks)	Geometry (Shape) (1 Week)	Consolidation Week (1 Week)
Teaching Sequence	<ul style="list-style-type: none"><li>Sort objects</li><li>Count objects</li><li>Count objects from a larger group</li><li>Represent objects</li><li>Recognise numbers as words</li><li>Count on from any number</li><li>1 more</li><li>Count backwards within 10</li><li>1 less</li><li>Compare groups by matching</li><li>Fewer, more, same</li><li>Less than, greater than, equal to</li><li>Compare numbers</li><li>Order objects and numbers</li><li>The number line</li></ul>	<ul style="list-style-type: none"><li>Introduce parts and wholes</li><li>Part-whole model</li><li>Write number sentences</li><li>Fact families – addition facts</li><li>Number bonds within 10</li><li>Systematic number bonds within 10</li><li>Number bonds to 10</li><li>Addition – add together</li><li>Addition – add more</li><li>Addition problems</li><li>Find a part</li><li>Subtraction – find a part</li><li>Fact families – the eight facts</li><li>Subtraction – take away/cross out (How many left?)</li><li>Take away (How many left?)</li><li>Subtraction on a number line</li></ul>	<ul style="list-style-type: none"><li>Recognise and name 3-D shapes</li><li>Sort 3-D shapes</li><li>Recognise and name 2-D shapes</li><li>Sort 2-D shapes</li><li>Patterns with 2-D and 3-D shapes</li></ul>	

Maths – YEAR 1 SPRING

	Place Value (Within 20) (3 Weeks)	Addition and Subtraction (Within 20) (4 Weeks)	Place Value (Within 50) (3 Weeks)	Length and Height (1 Week)	Mass and Volume (1 Week)
Teaching Sequence	<ul style="list-style-type: none"><li>Count within 20</li><li>Understand 10</li><li>Understand 11, 12 and 13</li><li>Understand 14, 15 and 16</li><li>Understand 17, 18 and 19</li><li>Understand 20</li><li>1 more and 1 less</li><li>The number line to 20</li><li>Use a number line to 20</li><li>Estimate on a number line to 20</li><li>Compare numbers to 20</li><li>Order numbers to 20</li></ul>	<ul style="list-style-type: none"><li>Add by counting on within 20</li><li>Add ones using number bonds</li><li>Find and make number bonds to 20</li><li>Doubles</li><li>Near doubles</li><li>Subtract ones using number bonds</li><li>Subtraction - counting back</li><li>Subtraction - finding the difference</li><li>Related facts</li><li>Missing number problems</li></ul>	<ul style="list-style-type: none"><li>Count from 20 to 50</li><li>20, 30, 40 and 50</li><li>Count by making groups of tens</li><li>Groups of tens and ones</li><li>Partition into tens and ones</li><li>The number line to 50</li><li>Estimate on a number line to 50</li><li>1 more, 1 less</li></ul>	<ul style="list-style-type: none"><li>Compare lengths and heights</li><li>Measure length using objects</li><li>Measure length in centimetres</li></ul>	<ul style="list-style-type: none"><li>Heavier and lighter</li><li>Measure mass</li><li>Compare mass</li><li>Full and empty</li><li>Compare volume</li><li>Measure capacity</li><li>Compare capacity</li></ul>

Maths – YEAR 1 SUMMER

	Multiplication and Division (3 weeks)	Fractions (2 Weeks)	Position and Direction (1 Week)	Place Value (Within 100) (2 Weeks)	Measurement – Money (1 Week)	Measurement – Time (2 Weeks)	Consolidation (1 Week)
Teaching Sequence	<ul style="list-style-type: none"><li>Count in 2’s</li><li>Count in 5’s</li><li>Count in 10’s</li><li>Make equal groups</li><li>Add equal groups</li><li>Make arrays</li><li>Make doubles</li><li>Make equal groups – grouping</li><li>Maker equal groups - sharing</li></ul>	<ul style="list-style-type: none"><li>Recognise, find and name a half as one of two equal parts of an object, shape or quantity</li><li>Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</li></ul>	<ul style="list-style-type: none"><li>Describe turns</li><li>Describe position</li><li>Describe position, direction and movement, including whole, half, quarter and three-quarter turns</li></ul>	<ul style="list-style-type: none"><li>Counting forwards and backwards within 100</li><li>Partitioning numbers</li><li>Comparing numbers</li><li>Ordering numbers</li><li>One more, one less</li></ul>	<ul style="list-style-type: none"><li>Recognising coins</li><li>Recognising notes</li><li>Counting in coins</li></ul>	<ul style="list-style-type: none"><li>Recognise and use language relating to dates, including days of the week, weeks, months and years</li><li>Before and after</li><li>Dates</li><li>Time to the hour</li><li>Time to the half hour</li><li>Writing time</li><li>Comparing time</li></ul>	

Maths – YEAR 2 AUTUMN

	Number: Place Value (5-6 Weeks)	Addition and Subtraction (6-7 Weeks)	Geometry (Shape) (2 Weeks)
Teaching Sequence	<ul style="list-style-type: none"><li>Numbers to 20</li><li>Count objects to 100 by making 10s</li><li>Recognise tens and ones</li><li>Use a place value chart</li><li>Partition numbers to 100</li><li>Write numbers to 100 in words</li><li>Flexibly partition numbers to 100</li><li>Write numbers to 100 in expanded form</li><li>10s on the number line to 100</li><li>10s and 1s on the number line to 100</li><li>Estimate numbers on a number line</li><li>Compare objects</li><li>Compare numbers</li><li>Order objects and numbers</li><li>Count in 2s, 5s and 10s</li><li>Count in 3s</li></ul>	<ul style="list-style-type: none"><li>Bonds to 10</li><li>Fact families - addition and subtraction bonds within 20</li><li>Related facts</li><li>Bonds to 100 (tens)</li><li>Add and subtract 1s</li><li>Add by making 10</li><li>Add three 1-digit numbers</li><li>Add to the next 10</li><li>Add across a 10</li><li>Subtract across 10</li><li>Subtract from a 10</li><li>Subtract a 1-digit number from a 2-digit number (across a 10)</li><li>10 more, 10 less</li><li>Add and subtract 10s</li><li>Add two 2-digit numbers (not across a 10)</li><li>Add two 2-digit numbers (across a 10)</li><li>Subtract two 2-digit numbers (not across a 10)</li><li>Subtract two 2-digit numbers (across a 10)</li><li>Mixed addition and subtraction</li><li>Compare number sentences</li><li>Missing number problems</li></ul>	<ul style="list-style-type: none"><li>Recognise 2-D and 3-D shapes</li><li>Count sides on 2-D shapes</li><li>Count vertices on 2-D shapes</li><li>Draw 2-D shapes</li><li>Lines of symmetry on shapes</li><li>Use lines of symmetry to complete shapes</li><li>Sort 2-D shapes</li><li>Count faces on 3-D shapes</li><li>Count edges on 3-D shapes</li><li>Count vertices on 3-D shapes</li><li>Sort 3-D shapes</li><li>Make patterns with 2-D and 3-D shapes</li></ul>

Maths – YEAR 2 SPRING

	Measurement – Money (2 Weeks)	Multiplication and Division (5 Weeks)	Length and Height (2 Weeks)	Mass, Capacity and Temperature (3 Weeks)
Teaching Sequence	<ul style="list-style-type: none"><li>Count money - pence</li><li>Count money - pounds (notes and coins)</li><li>Count money - pounds and pence</li><li>Choose notes and coins</li><li>Make the same amount</li><li>Compare amounts of money</li><li>Calculate with money</li><li>Make a pound</li><li>Find change</li><li>Two-step problems</li></ul>	<ul style="list-style-type: none"><li>Recognise equal groups</li><li>Make equal groups</li><li>Add equal groups</li><li>Introduce the multiplication symbol</li><li>Multiplication sentences</li><li>Use arrays</li><li>Make equal groups – grouping</li><li>Make equal groups – sharing</li><li>The 2 times-table</li><li>Divide by 2</li><li>Doubling and halving</li><li>Odd and even numbers</li><li>The 10 times-table</li><li>Divide by 10</li><li>The 5 times-table</li><li>Divide by 5</li><li>The 5 and 10 times-tables</li></ul>	<ul style="list-style-type: none"><li>Measure in centimetres</li><li>Measure in metres</li><li>Compare lengths and heights</li><li>Order lengths and heights</li><li>Four operations with lengths and heights</li></ul>	<ul style="list-style-type: none"><li>Compare mass</li><li>Measure in grams</li><li>Measure in kilograms</li><li>Four operations with mass</li><li>Compare volume and capacity</li><li>Measure in millilitres</li><li>Measure in litres</li><li>Four operations with volume and capacity</li><li>Temperature</li></ul>

Maths – YEAR 2 SUMMER

	Fractions (5 Weeks)	Measurement – Time (3 Weeks)	Statistics (2 Weeks)	Position and Direction (1 Week)	Consolidation (1 Week)
Teaching Sequence	<ul style="list-style-type: none"><li>Recognise, find, name and write fractions <math>\frac{1}{3}</math> , <math>\frac{1}{4}</math> <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li><li>Write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3 and recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math> .</li><li>Recognise, find, name and write fractions <math>\frac{1}{3}</math> , <math>\frac{1}{4}</math> <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li><li>Write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3 and recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math> .</li></ul>	<ul style="list-style-type: none"><li>Compare and sequence intervals of time</li><li>Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</li><li>Know the number of minutes in an hour and the number of hours in a day</li></ul>	<ul style="list-style-type: none"><li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables</li><li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li><li>Ask and answer questions about totalling and comparing categorical data</li></ul>	<ul style="list-style-type: none"><li>Order and arrange combinations of mathematical objects in patterns and sequences</li><li>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)</li></ul>	<ul style="list-style-type: none"><li></li></ul>

Maths – YEAR 3 AUTUMN

	Number: Place Value (4 Weeks)	Number: Addition and Subtraction (6-7 Weeks)	Number: Multiplication and Division A (4 weeks)
Teaching Sequence	<ul style="list-style-type: none"><li>Represent numbers to 100</li><li>Partition numbers to 100</li><li>Number line to 100</li><li>Hundreds</li><li>Represent numbers to 1,000</li><li>Partition numbers to 1,000</li><li>Flexible partitioning of numbers to 1,000</li><li>Hundreds, tens and ones</li><li>Find 1, 10 or 100 more or less</li><li>Number line to 1,000</li><li>Estimate on a number line to 1,000</li><li>Compare numbers to 1,000</li><li>Order numbers to 1,000</li><li>Count in 50s</li></ul>	<ul style="list-style-type: none"><li>Apply number bonds within 10</li><li>Add and subtract 1s</li><li>Add and subtract 10s</li><li>Add and subtract 100s</li><li>Spot the pattern</li><li>Add 1s across a 10</li><li>Add 10s across a 100</li><li>Subtract 1s across a10</li><li>Subtract 10s across a 100</li><li>Make connections</li><li>Add two numbers (no exchange)</li><li>Subtract two numbers (no exchange)</li><li>Add two numbers (across a 10)</li><li>Add two numbers (across a 100)</li><li>Subtract two numbers (across a 10)</li><li>Subtract two numbers (across a 100)</li><li>Add 2-digit and 3-digit numbers</li><li>Subtract a 2-digit number from a 3-digit number</li><li>Complements to 100</li><li>Estimate answers</li><li>Inverse operations</li><li>Make decisions</li></ul>	<ul style="list-style-type: none"><li>Multiplication – equal groups</li><li>Use arrays</li><li>Multiples of 2</li><li>Multiples of 5 and 10</li><li>Sharing and grouping</li><li>Multiply by 3</li><li>Divide by 3</li><li>The 3 times-table</li><li>Multiply by 4</li><li>Divide by 4</li><li>The 4 times-table</li><li>Multiply by 8</li><li>Divide by 8</li><li>The 8 times-table</li><li>The 2, 4 and 8 times-tables</li></ul>

Maths – YEAR 3 SPRING

	Multiplication and Division B (5 Weeks)	Length and Perimeter (2 Weeks)	Fractions A (3 Weeks)	Mass, Capacity and Temperature (2 Weeks)
Teaching Sequence	<ul style="list-style-type: none"><li>Multiples of 10</li><li>Related calculations</li><li>Reasoning about multiplication</li><li>Multiply a 2-digit number by a 1-digit number - no exchange</li><li>Multiply a 2-digit number by a 1-digit number - with exchange</li><li>Link multiplication and division</li><li>Divide a 2-digit number by a 1-digit number - no exchange</li><li>Divide a 2-digit number by a 1-digit number - flexible partitioning</li><li>Divide a 2-digit number by a 1-digit number - with remainders</li><li>Scaling</li><li>How many ways?</li></ul>	<ul style="list-style-type: none"><li>Measure in metres and centimetres</li><li>Measure in millimetres</li><li>Measure in centimetres and millimetres</li><li>Metres, centimetres and millimetres</li><li>Equivalent lengths (metres and centimetres)</li><li>Equivalent lengths (centimetres and millimetres)</li><li>Compare lengths</li><li>Add lengths</li><li>Subtract lengths</li><li>What is perimeter?</li><li>Measure perimeter</li><li>Calculate perimeter</li></ul>	<ul style="list-style-type: none"><li>Understand the denominators of unit fractions</li><li>Compare and order unit fractions</li><li>Understand the numerator of non-unit fractions</li><li>Understand the whole</li><li>Compare and order non-unit fractions</li><li>Fractions and scales</li><li>Fractions on a number line</li><li>Count in fractions on a number line</li><li>Equivalent fractions on a number line</li><li>Equivalent fractions as bar models</li></ul>	<ul style="list-style-type: none"><li>Use scales</li><li>Measure mass in grams</li><li>Measure mass in kilograms and grams</li><li>Equivalent masses (kilograms and grams)</li><li>Compare mass</li><li>Add and subtract mass</li><li>Measure capacity and volume in millilitres</li><li>Measure capacity and volume in litres and millilitres</li><li>Equivalent capacities and volumes (litres and millilitres)</li><li>Compare capacity and volume</li><li>Add and subtract capacity and volume</li></ul>

Maths – YEAR 3 SUMMER

	Fractions B (4 Weeks)	Measurement – Money (2 Weeks)	Measurement – Time (2 Weeks)	Shape (2 Weeks)	Statistics (1 Week)	Consolidation (1 Week)
Teaching Sequence	<ul style="list-style-type: none"><li>Making the whole</li><li>Tenths</li><li>Count in tenths</li><li>Tenths as decimals</li><li>Fractions on a number line</li><li>Fractions of a set of objects</li><li>Equivalent fractions</li><li>Compare fractions</li><li>Order fractions</li><li>Add fractions</li><li>Subtract fractions</li></ul>	<ul style="list-style-type: none"><li>Count money (pence)</li><li>Count money (pounds)</li><li>Pounds and pence</li><li>Convert pounds and pence</li><li>Add money</li><li>Subtract money</li><li>Give change</li></ul>	<ul style="list-style-type: none"><li>O’clock and half past</li><li>Quarter past and quarter to</li><li>Months and years</li><li>Hours in a day</li><li>Telling the time to 5 minutes</li><li>Telling the time to the minute</li><li>Using a.m. and p.m.</li><li>24-hour clock</li><li>Finding the duration</li><li>Comparing durations</li><li>Start and end times</li><li>Measuring time in seconds</li></ul>	<ul style="list-style-type: none"><li>Turns and angles</li><li>Right angles in shapes</li><li>Compare angles</li><li>Draw accurately</li><li>Horizontal and vertical</li><li>Parallel and perpendicular</li><li>Recognise and describe 2-D shapes</li><li>Recognise and describe 3-D shapes</li><li>Make 3 – D shapes</li></ul>	<ul style="list-style-type: none"><li>Make tally charts</li><li>Draw pictograms (2,5 and 10)</li><li>Interpret pictograms (2,5 and 10)</li><li>Pictograms</li><li>Bar charts</li><li>Tables</li></ul>	

Maths – YEAR 4 AUTUMN

	Number: Place Value (5-6 Weeks)	Addition and Subtraction (5 Weeks)	Area (1 Week)	Multiplication and Division A (3 Weeks)
Teaching Sequence	<ul style="list-style-type: none"><li>Represent numbers to 1,000</li><li>Partition numbers to 1,000</li><li>Number line to 1,000</li><li>Thousands</li><li>Represent numbers to 10,000</li><li>Partition numbers to 10,000</li><li>Flexible partitioning of numbers to 10,000</li><li>Find 1, 10, 100, 1,000 more or less</li><li>Number line to 10,000</li><li>Estimate on a number line to 10,000</li><li>Compare numbers to 10,000</li><li>Order numbers to 10,000</li><li>Roman numerals</li><li>Round to the nearest 10</li><li>Round to the nearest 100</li><li>Round to the nearest 1,000</li></ul>	<ul style="list-style-type: none"><li>Add and subtract 1s, 10s, 100s and 1,000s</li><li>Add up to two 4-digit numbers – no exchange</li><li>Add two 4-digit numbers – one exchange</li><li>Add two 4-digit numbers – more than one exchange</li><li>Subtract two 4-digit numbers – no exchange</li><li>Subtract two 4-digit numbers – one exchange</li><li>Subtract two 4-digit numbers – more than one exchange</li><li>Efficient subtraction</li><li>Estimate answers</li><li>Checking strategies</li></ul>	<ul style="list-style-type: none"><li>What is area?</li><li>Count squares</li><li>Make shapes</li><li>Compare areas</li></ul>	<ul style="list-style-type: none"><li>Multiples of 3</li><li>Multiply and divide by 6</li><li>6 times-table and division facts</li><li>Multiply and divide by 9</li><li>9 times-table and division facts</li><li>The 3, 6 and 9 times-tables</li><li>Multiply and divide by 7</li><li>7 times-table and division fact</li><li>11 times-table and division facts</li><li>12 times-table and division facts</li><li>Multiply by 1 and 0</li><li>Divide a number by 1 and itself</li><li>Multiply three numbers</li></ul>

Maths – YEAR 4 SPRING

	Multiplication and Division B (5 Weeks)	Length and Perimeter (2 Weeks)	Fractions (3 Weeks)	Decimals A (2 weeks)
Teaching Sequence	<ul style="list-style-type: none"><li>Factor pairs</li><li>Use factor pairs</li><li>Multiply by 10</li><li>Multiply by 100</li><li>Divide by 10</li><li>Divide by 100</li><li>Related facts – multiplication and division</li><li>Informal written methods for multiplication</li><li>Multiply a 2-digit number by a 1-digit number</li><li>10 Multiply a 3-digit number by a 1-digit number</li><li>Divide a 2-digit number by a 1-digit number (1)</li><li>Divide a 2-digit number by a 1-digit number (2)</li><li>Divide a 3-digit number by a 1-digit number</li><li>Correspondence problems</li><li>Efficient multiplication</li></ul>	<ul style="list-style-type: none"><li>Measure in kilometres and metres</li><li>Equivalent lengths (kilometres and metres)</li><li>Perimeter on a grid</li><li>Perimeter of a rectangle</li><li>Perimeter of rectilinear shapes</li><li>Find missing lengths in rectilinear shapes</li><li>Calculate the perimeter of rectilinear shapes</li><li>Perimeter of regular polygons</li><li>Perimeter of polygons</li></ul>	<ul style="list-style-type: none"><li>Understand the whole</li><li>Count beyond 1</li><li>Partition a mixed number</li><li>Number lines with mixed numbers</li><li>Compare and order mixed numbers</li><li>Understand improper fractions</li><li>Convert mixed numbers to improper fractions</li><li>Convert improper fractions to mixed numbers</li><li>Equivalent fractions on a number line</li><li>Equivalent fraction families</li><li>Add two or more fractions</li><li>Add fractions and mixed numbers</li><li>Subtract two fractions</li><li>Subtract from whole amounts</li><li>Subtract from mixed numbers</li></ul>	<ul style="list-style-type: none"><li>Tenths as fractions</li><li>Tenths as decimals</li><li>Tenths on a place value chart</li><li>Tenths on a number line</li><li>Divide a 1-digit number by 10</li><li>Divide a 2-digit number by 10</li><li>Hundredths as fractions</li><li>Hundredths as decimals</li><li>Hundredths on a place value chart</li><li>Divide a 1- or 2-digit number by 100</li></ul>

Maths – YEAR 4 SUMMER

	Decimals B (4 Weeks)	Measurement – Money (2 Weeks)	Measurement – Time (2 Weeks)	Consolidation (1 Week)	Shape (1 Week)	Statistics (1 Week)	Position and Direction (1 Week)
Teaching Sequence	<ul style="list-style-type: none"><li>Bonds to 10 and 100</li><li>Make a whole</li><li>Write decimals</li><li>Compare decimals</li><li>Order decimals</li><li>Round decimals</li><li>Halves and quarters</li></ul>	<ul style="list-style-type: none"><li>Pounds and pence</li><li>Ordering money</li><li>Estimating money</li><li>Convert pounds and pence</li><li>Add money</li><li>Subtract money</li><li>Find change</li><li>Four operations</li></ul>	<ul style="list-style-type: none"><li>Telling the time to 5 minutes</li><li>Telling the time to the minute</li><li>Using a.m. and p.m.</li><li>24-hour clock</li><li>Hours, minutes and seconds</li><li>Years, months, weeks and days</li><li>Analogue to digital – 12 hour</li><li>Analogue to digital – 24 hour</li></ul>		<ul style="list-style-type: none"><li>Turns and angles</li><li>Right angles in shapes</li><li>Compare angles</li><li>Identify angles</li><li>Compare and order angles</li><li>Recognise and describe 2-D shapes</li><li>Triangles</li><li>Quadrilaterals</li><li>Horizontal and vertical</li><li>Lines of symmetry</li><li>Complete a symmetrical figure</li></ul>	<ul style="list-style-type: none"><li>Interpret charts</li><li>Comparison, sum and difference</li><li>Introduce lone graphs</li><li>Line graphs</li></ul>	<ul style="list-style-type: none"><li>Describe position</li><li>Draw on a grid</li><li>Move on a grid</li><li>Describe movement on a grid</li></ul>



**Maths – YEAR 5 AUTUMN**

	<b>Number: Place Value (4 Weeks)</b>	<b>Addition and Subtraction (3-4 Weeks)</b>	<b>Multiplication and Division A (2 Weeks)</b>	<b>Fractions A (5-6 weeks)</b>
Teaching Sequence	<ul style="list-style-type: none"> <li>Roman numerals to 1,000</li> <li>Numbers to 10,000</li> <li>Numbers to 100,000</li> <li>Numbers to 1,000,000</li> <li>Read and write numbers to 1,000,000</li> <li>Powers of 10</li> <li>10/100/1,000/10,000/100,000 more or less</li> <li>Partition numbers to 1,000,000</li> <li>Number line to 1,000,000</li> <li>Compare and order numbers to 100,000</li> <li>Compare and order numbers to 1,000,000</li> <li>Round to the nearest 10, 100 or 1,000</li> <li>Round within 100,000</li> <li>Round within 1,000,000</li> </ul>	<ul style="list-style-type: none"> <li>Mental strategies</li> <li>Add whole numbers with more than four digits</li> <li>Subtract whole numbers with more than four digits</li> <li>Round to check answers</li> <li>Inverse operations (addition and subtraction)</li> <li>Multi-step addition and subtraction problems</li> <li>Compare calculations</li> <li>Find missing numbers</li> </ul>	<ul style="list-style-type: none"> <li>Multiples</li> <li>Common multiples</li> <li>Factors</li> <li>Common factors</li> <li>Prime numbers</li> <li>Square numbers</li> <li>Cube numbers</li> <li>Multiply by 10, 100 and 1,000</li> <li>Divide by 10, 100 and 1,000</li> <li>Multiples of 10, 100 and 1,000</li> </ul>	<ul style="list-style-type: none"> <li>Find fractions equivalent to a unit fraction</li> <li>Find fractions equivalent to a non-unit fraction</li> <li>Recognise equivalent fractions</li> <li>Convert improper fractions to mixed numbers</li> <li>Convert mixed numbers to improper fractions</li> <li>Compare fractions less than 1</li> <li>Order fractions less than 1</li> <li>Compare and order fractions greater than 1</li> <li>Add and subtract fractions with the same denominator</li> <li>Add fractions within 1</li> <li>Add fractions with total greater than 1</li> <li>Add to a mixed number</li> <li>Add two mixed numbers</li> <li>Subtract fractions</li> <li>Subtract from a mixed number</li> <li>Subtract from a mixed number – breaking the whole</li> <li>Subtract two mixed numbers</li> </ul>

**Maths – YEAR 5 SPRING**

	<b>Multiplication and Division B (3 Weeks)</b>	<b>Fractions B (4 Weeks)</b>	<b>Decimals and Percentages (2 Weeks)</b>	<b>Perimeter and Area (2 Weeks)</b>	<b>Statistics (1 Week)</b>
Teaching Sequence	<ul style="list-style-type: none"> <li>Multiply up to a 4-digit number by a 1-digit number</li> <li>Multiply a 2-digit number by a 2-digit number (area model)</li> <li>Multiply a 2-digit number by a 2-digit number</li> <li>Multiply a 3-digit number by a 2-digit number</li> <li>Multiply a 4-digit number by a 2-digit number</li> <li>Solve problems with multiplication</li> <li>Short division</li> <li>Divide a 4-digit number by a 1-digit number</li> <li>Divide with remainders</li> <li>Efficient division</li> <li>Solve problems with multiplication and division</li> </ul>	<ul style="list-style-type: none"> <li>Multiply a unit fraction by an integer</li> <li>Multiply a non-unit fraction by an integer</li> <li>Multiply a mixed number by an integer</li> <li>Calculate a fraction of a quantity</li> <li>Fraction of an amount</li> <li>Find the whole</li> <li>Use fractions as operators</li> </ul>	<ul style="list-style-type: none"> <li>Decimals up to 2 decimal places</li> <li>Equivalent fractions and decimals (tenths)</li> <li>Equivalent fractions and decimals (hundredths)</li> <li>Equivalent fractions and decimals</li> <li>Thousandths as fractions</li> <li>Thousandths as decimals</li> <li>Thousandths on a place value chart</li> <li>Order and compare decimals (same number of decimal places)</li> <li>Order and compare any decimals with up to 3 decimal places</li> <li>Round to the nearest whole number</li> <li>Round to 1 decimal place</li> <li>Understand percentages</li> <li>Percentages as fractions</li> <li>Percentages as decimals</li> <li>Equivalent fractions, decimals and percentages</li> </ul>	<ul style="list-style-type: none"> <li>Perimeter of rectangles</li> <li>Perimeter of rectilinear shapes</li> <li>Perimeter of polygons</li> <li>Area of rectangles</li> <li>Area of compound shapes</li> <li>Estimate area</li> </ul>	<ul style="list-style-type: none"> <li>Draw line graphs</li> <li>Read and interpret line graphs</li> <li>Read and interpret tables</li> <li>Two-way tables</li> <li>Read and interpret timetables</li> </ul>

**Maths – YEAR 5 SUMMER**

	<b>Shape (3 Weeks)</b>	<b>Position and Direction (2 Weeks)</b>	<b>Decimals (3 Weeks)</b>	<b>Negative Numbers (1 Week)</b>	<b>Converting Units (2 Weeks)</b>	<b>Measurement – Volume (1 Week)</b>
Teaching Sequence	<ul style="list-style-type: none"> <li>Identify angles</li> <li>Compare and order angles</li> <li>Measure angles in degrees</li> <li>Measuring with a protractor</li> <li>Drawing lines and angles accurately</li> <li>Calculating angles on a straight line</li> <li>Calculating angles around a point</li> <li>Triangles</li> <li>Quadrilaterals</li> <li>Calculating lengths and angles in shapes</li> <li>Regular and irregular polygons</li> <li>Reasoning about 3-D shapes</li> </ul>	<ul style="list-style-type: none"> <li>Describe position</li> <li>Draw on a grid</li> <li>Position in the first quadrant</li> <li>Translation</li> <li>Translation with co-ordinates</li> <li>Lines of symmetry</li> <li>Complete a symmetric figure</li> <li>Reflection</li> <li>Reflection with co-ordinates</li> </ul>	<ul style="list-style-type: none"> <li>Adding decimals within 1</li> <li>Subtracting decimals within 1</li> <li>Complements to 1</li> <li>Adding decimals – crossing the whole</li> <li>Adding decimals with the same number of decimal places</li> <li>Subtracting decimals with the same number of decimal places</li> <li>Adding decimals with a different number of decimal places</li> <li>Subtracting decimals with a different number of decimal places</li> <li>Adding and subtracting wholes and decimals</li> <li>Decimal sequences</li> <li>Multiplying decimals by 10, 100 and 1000</li> <li>Dividing decimals by 10, 100 and 1000</li> </ul>	<ul style="list-style-type: none"> <li>Explore negative numbers and their position on a number line</li> <li>Count back through zero</li> <li>Place numbers on a number line and estimate negative numbers positions on a number line</li> <li>Use negative numbers in context: temperature</li> <li>Use terminology ‘negative four’</li> </ul>	<ul style="list-style-type: none"> <li>Kilometres</li> <li>Kilograms and kilometres</li> <li>Millimetres and millilitres</li> <li>Metric units</li> <li>Imperial units</li> <li>Converting units of time</li> <li>Timetables</li> </ul>	<ul style="list-style-type: none"> <li>What is volume?</li> <li>Compare volume</li> <li>Estimate volume</li> <li>Estimate capacity</li> </ul>

Maths – YEAR 6 AUTUMN

	Number: Place Value (3 Weeks)	Addition and Subtraction Multiplication and Division (5 Weeks)	Fractions A (3 - 4 Weeks)	Fractions B (2-3 Weeks)	Converting Units (1 Week)
Teaching Sequence	<ul style="list-style-type: none"><li>Numbers to 1,000,000</li><li>Numbers to 10,000,000</li><li>Read and write numbers to 10,000,000</li><li>Powers of 10</li><li>Number line to 10,000,000</li><li>Compare and order any integers</li><li>Round any integer</li><li>Negative numbers</li></ul>	<ul style="list-style-type: none"><li>Add and subtract integers</li><li>Common factors</li><li>Common multiples</li><li>Rules of divisibility</li><li>Primes to 100</li><li>Square and cube numbers</li><li>Multiply up to a 4-digit number by a 2-digit number</li><li>Solve problems with multiplication</li><li>Short division</li><li>Division using factors</li><li>Introduction to long division</li><li>Long division with remainders</li><li>Solve problems with division</li><li>Solve multi-step problems</li><li>Order of operations</li><li>Mental calculations and estimation</li><li>Reason from known facts</li></ul>	<ul style="list-style-type: none"><li>Equivalent fractions and simplifying</li><li>Equivalent fractions on a number line</li><li>Compare and order (denominator)</li><li>Compare and order (numerator)</li><li>Add and subtract simple fractions</li><li>Add and subtract any two fractions</li><li>Add mixed numbers</li><li>Subtract mixed numbers</li><li>Multi-step problems</li></ul>	<ul style="list-style-type: none"><li>Multiply fractions by integers</li><li>Multiply fractions by fractions</li><li>Divide a fraction by an integer</li><li>Divide any fraction by an integer</li><li>Mixed questions with fractions</li><li>Fraction of an amount</li><li>Fraction of an amount – find the whole</li></ul>	<ul style="list-style-type: none"><li>Metric measures</li><li>Convert metric measures</li><li>Calculate with metric measures</li><li>Miles and kilometres</li><li>Imperial measures</li></ul>

Maths – YEAR 6 SPRING

	Ratio (2 Weeks)	Algebra (2 Weeks)	Decimals (3 Weeks)	Fractions, Decimals and Percentages (2 Weeks)	Area, Perimeter and Volume (2 Weeks)	Statistics (1 Week)
Teaching Sequence	<ul style="list-style-type: none"><li>Add or multiply?</li><li>Use ratio language</li><li>Introduction to the ratio symbol</li><li>Ratio and fractions</li><li>Scale drawing</li><li>Use scale factors</li><li>Similar shapes</li><li>Ratio problems</li><li>Proportion problems</li><li>Recipes</li></ul>	<ul style="list-style-type: none"><li>1-step function machines</li><li>2-step function machines</li><li>Form expressions</li><li>Substitution</li><li>Formulae</li><li>Form equations</li><li>Solve 1-step equations</li><li>Solve 2-step equations</li><li>Find pairs of values</li><li>Solve problems with two unknowns</li></ul>	<ul style="list-style-type: none"><li>Place value within 1</li><li>Place value – integers and decimals</li><li>Round decimals</li><li>Add and subtract decimals</li><li>Multiply by 10, 100 and 1,000</li><li>Divide by 10, 100 and 1,000</li><li>Multiply decimals by integers</li><li>Divide decimals by integers</li><li>Multiply and divide decimals in context</li></ul>	<ul style="list-style-type: none"><li>Decimal and fraction equivalents</li><li>Fractions as division</li><li>Understand percentages</li><li>Fractions to percentages</li><li>Equivalent fractions, decimals and percentages</li><li>Order fractions, decimals and percentages</li><li>Percentage of an amount – one step</li><li>Percentage of an amount – multi-step</li><li>Percentages – missing values</li></ul>	<ul style="list-style-type: none"><li>Shapes - same area</li><li>Area and perimeter</li><li>Area of a triangle – counting squares</li><li>Area of a right-angled triangle</li><li>Area of any triangle</li><li>Area of a parallelogram</li><li>Volume - counting cubes</li><li>Volume of a cuboid</li></ul>	<ul style="list-style-type: none"><li>Line graphs</li><li>Dual bar charts</li><li>Read and interpret pie charts</li><li>Pie charts with percentages</li><li>Draw pie charts</li><li>The mean</li></ul>

Maths – YEAR 6 SUMMER

	Shape (3 Weeks)	Position and Direction (3 Weeks)	Themed Projects, Consolidation and Problem Solving (6 Weeks)
Teaching Sequence	<ul style="list-style-type: none"><li>Measure with a protractor</li><li>Draw lines and angles accurately</li><li>Introduce angles</li><li>Angles on a straight line</li><li>Angles around a point</li><li>Calculate angles</li><li>Vertically opposite angles</li><li>Angles in a triangle</li><li>Angles in a triangle – special cases</li><li>Angles in a triangle – missing angles</li><li>Angles in special quadrilaterals</li><li>Angle sin regular polygons</li><li>Draw shapes accurately</li><li>Draw nets of 3-D shapes</li></ul>	<ul style="list-style-type: none"><li>Describe positions on the full coordinate grid (all four quadrants)</li><li>Draw and translate simple shapes on the coordinate plane and reflect them in the axes.</li></ul>	<p>Ludwig Von Terrible</p> <ul style="list-style-type: none"><li>Problem solving – Caesar ciphers.</li><li>Coordinates</li><li>Position and direction – (North, East, South, West)</li><li>Algebra – simplifying expressions.</li><li>Fractions – ordering fractions</li><li>Number sequences – finding the missing numbers in a sequence.</li></ul> <p>Codebreakers</p> <ul style="list-style-type: none"><li>Caesar ciphers</li><li>Pigpen ciphers</li><li>Transposition cipher</li><li>Vigenere cipher</li></ul> <p>Spirals</p> <ul style="list-style-type: none"><li>Spirals in nature/the world.</li><li>Archimedes spiral</li><li>Concentric circles.</li><li>Using a protractor</li><li>Number patterns using fractions</li><li>Baravelle spirals</li><li>Fibonacci sequence</li></ul>