

## Maths Medium Term Planning – Mixed Age

Year Groups:    Years 3 and 4

Term: Autumn

	Maths Topic	Year 4	Year 3
Week 1	Number & Place Value	<ul style="list-style-type: none"> <li>• To recognise the place value of 4 digit numbers ( make it, draw it, write it)</li> <li>• To partition and combine 4 digit numbers and know what each number represents</li> <li>• To partition and combine 4 digit numbers in different ways</li> <li>• To order and compare numbers to 1000</li> <li>• Round to the nearest 10, 100, 1000</li> <li>• Count in multiples of 25 and 1000</li> <li>• Know roman numerals to 100</li> </ul>	<ul style="list-style-type: none"> <li>• To know the place value of digits in a 3 digit number</li> <li>• To identify, represent and estimate numbers using different representations</li> <li>• To count on from zero in 50s and 100s</li> <li>• To find 10 or 100 more or less than a given number</li> </ul>
Week 2			
Week 3	Addition	<ul style="list-style-type: none"> <li>• To add in -1s, 10s, 100s and 1000s</li> <li>• Add 4 digit numbers – no exchange</li> <li>• Add 2 four digit numbers – one exchange</li> <li>• Add 2 four digit numbers more than one exchange</li> <li>• Solve 4 digit addition problems including missing number boxes</li> </ul>	<ul style="list-style-type: none"> <li>• To recall and use addition facts to 100</li> <li>• To add 3 digit number + ones – not bridging then bridging</li> <li>• To add 3-digit number and tens – not bridging then bridging</li> <li>• To add 3 digit number and hundreds – not bridging then bridging</li> </ul>
Week 4			
Week 5	Geometry 2D Shape	<ul style="list-style-type: none"> <li>• Find area of rectilinear shapes by counting squares</li> </ul>	<ul style="list-style-type: none"> <li>• Draw 2d shapes ( rulers needed)</li> <li>• Identify and draw horizontal and vertical lines</li> <li>• Identify perpendicular and parallel</li> </ul>
Week 6	Subtraction	<ul style="list-style-type: none"> <li>• Subtract 1s, 10s, 100s and 1000s</li> <li>• Subtract a 4 digit number from a 4 digit number no exchange</li> <li>• Subtract a 4 digit number from a 4 digit number with 1 exchange</li> <li>• Subtract across two columns of value of zero</li> </ul>	<ul style="list-style-type: none"> <li>• To subtract 3 digit – 1 digit ( not bridging then bridging)</li> <li>• To subtract 3 digit – 2 digit ( not bridging then bridging)</li> <li>• To subtract 3-digit – 3 digit ( not bridging then bridging)</li> </ul>
Week 7			

Week 8	Fractions	<ul style="list-style-type: none"> <li>• Know common equivalent fractions – unit and no-unit</li> <li>• Know fractions of quantities</li> <li>• Add and subtract fractions with the same denominator ( that go beyond 1 whole)</li> <li>• To count up and down in hundredths and know that hundredths is dividing into 100 equal pieces and tenths is 10 equal pieces</li> </ul>	<ul style="list-style-type: none"> <li>• To find a unit fraction of a shape, length or number ( <math>\frac{1}{4}</math>, <math>\frac{1}{3}</math>, <math>\frac{1}{5}</math>, <math>\frac{1}{8}</math>, <math>\frac{1}{10}</math>)</li> <li>• To know that when the numerator and denominator are the same the value is one whole</li> <li>• To count up in tenths</li> <li>• To find a non-unit fraction of a shape, length or quantity</li> </ul>
Week 9	Measurement length and mass	<ul style="list-style-type: none"> <li>• Convert between different units of measure cm-m, mm-cm, m-km and vice versa</li> <li>• Convert between cl – l, kg – g, l – ml and vice versa</li> </ul>	<ul style="list-style-type: none"> <li>• To measure, compare, add and subtract lengths in mm, cm and metres</li> <li>• To know that there are 10mm in a cm and 100cm in a metre</li> <li>• To measure, compare, add and subtract masses in grams and kilograms</li> <li>• To read scales</li> </ul>
Week 10	Multiplication & division	<ul style="list-style-type: none"> <li>• Recall multiplication facts</li> <li>• Identify patterns in times tables e.g 6 is double 3 and pattern in 9s</li> <li>• To multiply and divide by 10, 100 including decimals</li> <li>• Multiply 3 numbers</li> <li>• To use known multiplication and division facts to multiply and divide mentally e.g 600 divided 3 = 200 from 6 divided by 3 =2</li> </ul>	<ul style="list-style-type: none"> <li>• To count in steps of 4 and 8</li> <li>• To make links between 2,4,8 x with doubling</li> <li>• To know corresponding multiplication and division facts for 4 and 8</li> <li>• To multiply a 2 digit number by a 1 digit number using mental methods by partitioning</li> </ul>
Week 11			
Week 12	Measurement Area and Perimeter	<ul style="list-style-type: none"> <li>• Measure and calculate perimeter of rectilinear figures in metres and cm</li> <li>• Know formula is length x width x2</li> <li>• Find area of rectilinear shapes by counting squares</li> <li>• Solve problems involving area and perimeter</li> </ul>	<ul style="list-style-type: none"> <li>• To measure and calculate the perimeter of 2d shapes</li> </ul>

<b>ONGOING Year 3</b>	<b>Year 4</b>
<ul style="list-style-type: none"> <li>• To write words to represent numbers</li> <li>• To tell the time in 12 and 24 hour clock</li> <li>• To know days in each month, days in a year and leap year</li> <li>• To know <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math> turns</li> </ul>	<ul style="list-style-type: none"> <li>• To know and rapidly recall multiplication tables for 2,3,4,5,8,10,11</li> <li>• Roman numerals to 100</li> <li>• Using money</li> <li>• Using decimals and negative numbers</li>   <li>• <b>Ensure all calculation involves dienes, pv counters before formal methods of partitioning then columnar</b></li> </ul>

## Maths Medium Term Planning – Mixed Age

Year Groups:    Years 3 and 4

Term: Spring

	Maths Topic	Year 4	Year 3
Week 1	Number & Place Value	<ul style="list-style-type: none"> <li>• To compare and order numbers beyond 1000</li> <li>• To recognise the value of each digit in a 5 digit number ( write it, draw it, make it)</li> <li>• To count forwards and backwards through zero to include negative numbers</li> <li>• To position 5 digit numbers on a numberline</li> </ul>	<ul style="list-style-type: none"> <li>• To partition in different ways up to 1000</li> <li>• Revision of draw it, partition it, write it in numerals, write it in words</li> </ul>
Week 2			
Week 3	Addition & Subtraction	<ul style="list-style-type: none"> <li>• To add and subtract 4 digit numbers including passing through ten, using a fluent method</li> <li>• Add and subtract mentally with increasingly large numbers e.g 4791 – 600</li> <li>• Use inverse to check answers to a calculation</li> <li>• To solve multi-step problems involving and/ or subtraction</li> </ul>	<ul style="list-style-type: none"> <li>• To add and subtract numbers up to 3 digits using formal written methods ( columnal)</li> <li>• To solve problems involving addition and subtraction</li> </ul>
Week 4			
Week 5	Fractions	<ul style="list-style-type: none"> <li>• To know fractions of quantities – unit and non unit</li> <li>• To solve measure and money problems involving fractions</li> <li>• Find the effect of dividing a 1 or 2 digit number by 10 or 100</li> <li>• Recognise and write decimal equivalents of any number of 10ths and 100ths</li> <li>• Know decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{3}{4}</math></li> </ul>	<ul style="list-style-type: none"> <li>• To write fractions that match a discrete set of objects</li> <li>• To add and subtract fractions of the same denominator up to one whole</li> </ul>
Week 6	Statistics ( y3) Fractions to continue for year 4		<ul style="list-style-type: none"> <li>• To interpret and present data using bar charts, pictograms and tables</li> </ul>
Week 7	Multiplication & Division	<ul style="list-style-type: none"> <li>• To know factor pairs and multiples</li> <li>• To know square numbers</li> <li>• Multiply 2 and 3 digit numbers by a 1 digit number using formal written layout, including partitioning and grid method</li> </ul>	<ul style="list-style-type: none"> <li>• To know multiplication and division facts for 3,4,8,2,5,10</li> <li>• To multiply a 2 digit number by a 1 digit number by partitioning</li> <li>• To divide a 2 digit by a 1 digit number</li> </ul>
Week 8			

			<ul style="list-style-type: none"> <li>To know fact families for multiplication and division</li> </ul>
Week 9	Measurement:Time	<ul style="list-style-type: none"> <li>Read, write and convert time between digital and analogue 12 and 24 hour clocks</li> <li>Solve problems involving converting hours to minutes, minutes to seconds, years to months, weeks to days</li> </ul>	<ul style="list-style-type: none"> <li>To understand the terms am and pm</li> <li>To understand the 12 hour and 24 hour clock</li> <li>Read time to the nearest 5 minutes</li> <li>Read time to the nearest minute</li> <li>To compare durations of events</li> </ul>
Week 10	Measurement:Money	<ul style="list-style-type: none"> <li>To calculate addition and subtraction using decimals e.g money</li> </ul>	<ul style="list-style-type: none"> <li>To add and subtract and give change using pounds and pence</li> </ul>
Week 11	Geometry: shape and angles	<ul style="list-style-type: none"> <li>Compare and classify types of triangles including right angle, isosceles, equilateral, scalene</li> <li>Know the properties of different quadrilaterals including square, parallelogram, rectangle, kite, rhombus, trapezium</li> <li>Identify acute and obtuse angles</li> <li>To compare and order angles up to 180 degrees</li> </ul>	<ul style="list-style-type: none"> <li>Make 3d shapes using modelling materials</li> <li>Recognise 3d shapes in different orientations and describe them</li> <li>To know an angle is a measurement of turn</li> <li>To know that a quarter turn is also called a right angle</li> <li>To know that two right angles make a half turn and three make a <math>\frac{3}{4}</math> turn and four make a whole turn.</li> </ul>
Week 12			

<b>ONGOING - Year 3</b>	<b>Year 4</b>
<ul style="list-style-type: none"> <li>To write words to represent numbers</li> <li>To know days in each month, days in a year and leap year</li> <li>To tell the time in 12 and 24 hour clock</li> </ul>	<ul style="list-style-type: none"> <li>Know a full turn is 360 degrees and half turn is 180 degrees and quarter turn is 90 degrees</li> <li>To know times tables 6,7,9 repaid recall</li> <li>Roman numerals to 100</li> <li>Count in decimals/ fractions on a numberline in 10ths and 100ths</li> <li>To tell the time in 12 and 24 hour clock – analogue/ digital</li> <li>Using decimals and negative numbers</li> </ul>

- |  |  |
|--|--|
|  | <ul style="list-style-type: none"><li>• <b>Ensure all calculation involves dienes, pv counters before formal methods of partitioning then columnar</b></li></ul> |
|--|--|

## Maths Medium Term Planning – Mixed Age

Year Groups: Years 3 and 4

Term: Summer

	Maths Topic	Year 4	Year 3
Week 1	Number & Place Value	<ul style="list-style-type: none"> <li>To solve number and practical problems involving place value</li> </ul>	<ul style="list-style-type: none"> <li>Compare and order numbers to 1000</li> <li>Count on in 4s and 8s</li> </ul>
Week 2	Addition & Subtraction	<ul style="list-style-type: none"> <li>To solve problems using addition and subtraction using the most efficient methods, up to 4 digits</li> <li>To calculate addition and subtraction using decimals e.g money</li> </ul>	<ul style="list-style-type: none"> <li>To add and subtract numbers up to 3 digits using formal written methods</li> <li>Use inverse to check accuracy of calculations</li> <li>To solve problems including missing number problems</li> </ul>
Week 3			
Week 4	Fractions	<ul style="list-style-type: none"> <li>Solve measure and money problems involving fractions and decimals</li> <li>Round decimals to 1 decimal place</li> <li>Compare and order numbers with the same number of decimal places up to 2 d.p.</li> </ul>	<ul style="list-style-type: none"> <li>To recognise and show with diagrams, equivalent fractions with small denominators</li> <li>To compare and order unit fractions</li> <li>To compare and order fractions with the same denominator</li> <li>To solve problems using fractions</li> </ul>
Week 5			
Week 6	Measurement: temperature	<ul style="list-style-type: none"> <li>To convert litres to millilitres and vice versa</li> <li>Reading scales with various intervals</li> </ul>	<ul style="list-style-type: none"> <li>To read scales on a thermometer and know this is in degrees</li> <li>To understand negative numbers are below zero</li> <li>To calculate differences in temperature using a numberline</li> </ul>
Week 7	Measurement: capacity		<ul style="list-style-type: none"> <li>To measure and compare capacities in litres and millilitres</li> </ul>
Week 8	Multiplication & division	<ul style="list-style-type: none"> <li>To solve problems involving multiplication and division such as correspondence questions ( combinations)</li> <li>Multiply 2 and 3 digit numbers by a 1 digit number using formal written layout, including partitioning and grid method</li> </ul>	<ul style="list-style-type: none"> <li>To solve problems involving measuring and scaling</li> <li>To solve problems involving combinations</li> <li>To know multiplication and division facts for 2,3,4,5,8,10</li> <li>To be able to multiply a 2 digit by 1 digit number</li> <li>To be able to divide a 2 digit by 1 digit number</li> </ul>
Week 9			
Week 10			

Week 11	Geometry: Position & Direction and Angles	<ul style="list-style-type: none"> <li>Describe position on a 2d grid as co-ordinates in the first quadrant</li> <li>Describe movements between positions as translations of a given unit to the left, right, up and down</li> <li>Plot specific points and draw sides to complete a polygon</li> <li>To compare and order angles in preparation for using a protractor</li> <li>Introduce how to use a protractor to measure angles</li> </ul>	<ul style="list-style-type: none"> <li>To use a right angle measure to find right angles</li> <li>To identify angles bigger or smaller than a right angle and find them in shapes</li> </ul>
Week 12	Statistics	<ul style="list-style-type: none"> <li>Interpret and draw discrete and continuous data using appropriate graphical methods ( bar charts/ line graphs)</li> <li>Solve comparison sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>	<ul style="list-style-type: none"> <li>To solve 1 and 2 step questions using information presented in scaled bar charts, pictograms and tables.</li> </ul>
Week 13	Symmetry	<ul style="list-style-type: none"> <li>Identify lines of symmetry in 2d shapes presented in different orientations</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry including where the line of symmetry does not dissect the original shape</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

<b>ONGOING Year 3</b>	<b>Year 4</b>
<ul style="list-style-type: none"> <li>To write words to represent numbers</li> <li>To know days in each month, days in a year and leap year</li> <li>To tell the time in 12 and 24 hour clock</li> </ul>	<ul style="list-style-type: none"> <li>To know all times tables facts for rapid recall up to 12 x 12</li> <li>To order fractions and decimal numbers on a numberline</li> </ul>

- |  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>• To tell the time in 12 and 24 hour clock – analogue and digital</li></ul> |
|--|---|