

	Term 1: Sept –Dec Content	Term 2: Jan-April Content	Term 3: April - July Content	Desired end of year outcomes																																																			
Year 8-Miss Mendez	<p>Number – Place Value Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward</p> <p>Recognise the place value of each digit in a two-digit number (10s, 1s)</p> <p>Compare and order numbers from 0 up to 100; use <, > and = signs</p> <p>Read and write numbers up to 1000 in numerals and in words</p> <p>Use place value and number facts to solve problems</p> <p>Number – Addition and Subtraction Solve problems with addition and subtraction: applying their increasing knowledge of mental and written methods</p> <p>Recall and use addition and subtraction facts up to 100</p> <p>Add and subtract a two-digit number and 1s, a two-digit number and 10s, 2 two-digit numbers and adding 3 one-digit numbers</p> <p>Show that addition of 2 numbers can be done in any order and subtraction of 1 number from another cannot</p> <p>Recognise and use the inverse relationship to check calculations and solve missing number problems</p> <p>Measurement – Money Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</p> <p>Find different combinations of coins that equal the same amounts of money</p> <p>Solve simple problems involving addition and subtraction of money including giving change</p> <p>Number – Multiplication and Division Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p>	<p>Number – Multiplication and Division Calculate multiplication and division statements within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs</p> <p>Show that multiplication of 2 numbers can be done in any order and division of 1 number by another cannot</p> <p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</p> <p>Statistics Interpret and construct simple pictograms, tally charts, block diagrams and tables</p> <p>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</p> <p>Ask-and-answer questions about totalling and comparing categorical data</p> <p>Geometry – Properties of Shape Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line</p> <p>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</p> <p>Identify 2-D shapes on the surface of 3-D shapes</p> <p>Compare and sort common 2-D and 3-D shapes and everyday objects</p> <p>Number – Fractions Recognise, find, name and write unit fractions of a length, shape, set of objects or quantity Write simple fractions of amounts and recognise equivalent fractions</p>	<p>Measurement – Length and Height Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) using rulers</p> <p>Geometry – Position and Direction Order and arrange patterns and sequences</p> <p>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 anti-clockwise)</p> <p>Measurement – Time Compare and sequence intervals of time</p> <p>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</p> <p>Know the number of minutes in an hour and the number of hours in a day</p> <p>Measurement – Mass, Capacity and Temperature Choose and use appropriate standard units to estimate and measure mass (kg/g), temperature ($^{\circ}\text{C}$) and capacity (litres/ml) to the nearest unit</p> <p>Use scales, thermometers and measuring vessels to compare and order mass, volume/capacity and record the results using >, < and =</p>	<p>Students who have acquired the following skills will be ready to progress to the next level.</p> <p>Recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts</p> <p>Use reasoning about numbers and relationships to solve more complex problems and explain their thinking</p> <p>Solve unfamiliar word problems that involve more than one step</p> <p>Read the time on the clock to the nearest 5 minutes</p> <p>Read scales where not all numbers on the scale are given and estimate points in between</p> <p>Describe similarities and differences of 2-D and 3-D shapes, using their properties</p>																																																			
		<table border="1"> <thead> <tr> <th></th> <th>Week 1</th> <th>Week 2</th> <th>Week 3</th> <th>Week 4</th> <th>Week 5</th> <th>Week 6</th> <th>Week 7</th> <th>Week 8</th> <th>Week 9</th> <th>Week 10</th> <th>Week 11</th> <th>Week 12</th> </tr> </thead> <tbody> <tr> <th>Autumn</th> <td colspan="3">Number: Place Value</td> <td colspan="4">Number: Addition and Subtraction</td> <td>Measurement: Money</td> <td colspan="2">Number: Multiplication and Division</td> <td colspan="2">Consolidation</td> </tr> <tr> <th>Spring</th> <td colspan="4">Number: Multiplication and Division</td> <td colspan="2">Statistics</td> <td colspan="2">Geometry: Properties of Shape</td> <td colspan="4">Number: Fractions</td> </tr> <tr> <th>Summer</th> <td>Measurement: Length and Height</td> <td colspan="2">Geometry: Position and Direction</td> <td colspan="2">Consolidation and problem solving</td> <td colspan="2">Measurement: Time</td> <td colspan="2">Measurement: Mass, Capacity and Temperature</td> <td colspan="3">Consolidation</td> </tr> </tbody> </table>				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: Place Value			Number: Addition and Subtraction				Measurement: Money	Number: Multiplication and Division		Consolidation		Spring	Number: Multiplication and Division				Statistics		Geometry: Properties of Shape		Number: Fractions				Summer	Measurement: Length and Height	Geometry: Position and Direction		Consolidation and problem solving		Measurement: Time		Measurement: Mass, Capacity and Temperature		Consolidation	
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YEAR 8 – Miss Kane	<p>Number and Place Value</p> <ul style="list-style-type: none"> -Read and write numbers to 100 and count across 100 -Create repeating patterns and recognise numeric patterns -Identify 1 or 10 more and less than a number and use number bonds -Use number bonds <p>Addition and Subtraction</p> <ul style="list-style-type: none"> -Read and write mathematical statements using bonds to 20 -Use varied language to add and subtract -Use concrete or pictorial representations to solve missing number problems <p>Multiplication and Division</p> <ul style="list-style-type: none"> -Use concrete or pictorial support to solve simple calculations <p>Double quantities and find simple fractions of a number or quantity</p>	<p>Number and Place Value</p> <ul style="list-style-type: none"> -Recognise value of 2-digit numbers and thus compare numbers up to 100 -Count forward and backwards in 2s, 5s, 10s from different starting points -Count in 3s <p>Properties of Shape</p> <ul style="list-style-type: none"> -Recognise, name, sort and describe properties of common 2D and 3D shapes and draw common 2D shapes <p>Fractions</p> <ul style="list-style-type: none"> -Recognise half as one of two equal pieces and a quarter as one of four -Find half and quarter of a shape or quantity -Make connections of half and quarter <p>Measures</p> <ul style="list-style-type: none"> -Recognise coins and notes -Sequence events -Use varied vocabulary (long/short/heavy /light/full/empty/quick/slow/early/late) -Measure and record capacity, length, weight and time -Tell the time to nearest half-hour 	<p>Number and Place Value</p> <ul style="list-style-type: none"> -Identify, represent and estimate numbers including using a number line -Count in 3s forwards and backwards -Use place value to solve problems <p>Addition and Subtraction</p> <ul style="list-style-type: none"> -Add and subtract ones or tens from up to 3-digit numbers -Solve sum and difference problems using manipulatives to support -Recall and use facts to 20 + inverse <p>Multiplication and Division</p> <ul style="list-style-type: none"> -Recognise patterns in 2x, 5x and 10x tables -Write and calculate multiplication and division calculations -Solve problems using manipulatives as aids <p>Measures</p> <ul style="list-style-type: none"> -Combine different coins to make totals and give simple change -Tell the time to 5-minute intervals -Compare and sequence time intervals -Choose appropriate units for length, mass and volume and compare them 	<p>Solid understanding of place value in 3-digit numbers including measures.</p> <p>Add or subtract one digit or tens from 2- or 3-digit numbers. Record in columns.</p> <p>Count in 2s, 5s, 10s, 3s and recall related facts.</p> <p>Double and halve quantities.</p> <p>Understand that multiplication and addition are commutative whereas subtraction and division are not.</p> <p>Confidently use manipulatives to aid problem solving.</p> <p>Know time facts (e.g. hours in a day, minutes in an hour) and tell the time to 5 minute intervals.</p> <p>Give change from £1. Describe common 2D and 3D shapes.</p>

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Year 8 - Mrs Shaw	<p>Number</p> <p>Place value</p> <ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less Compare and order numbers Solve number problems Count from 0 in multiples of 50 and 100 <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Add and subtract numbers mentally Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate and use inverse operations to check answers. Solve problems <p>Multiplication and Division</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Solve problems involving multiplication and division Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. 	<p>Number</p> <p>multiplication and division</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Solve problems, including missing number problems Write and calculate mathematical statements for multiplication and division, using mental and progressing to formal written methods. <p>Measurement – money</p> <ul style="list-style-type: none"> Count money Add money Subtract money Give change <p>Statistics</p> <ul style="list-style-type: none"> Interpret and present data using bar charts, pictograms and tables. Solve one step and two-step questions using information presented in scaled bar charts and pictograms and tables. <p>Measurement – Length and perimeter</p> <ul style="list-style-type: none"> Measure & compare length (cm, m) Find equivalent lengths Add & subtract lengths Measure & calculate perimeter Calculate perimeter <p>Number – fractions</p> <ul style="list-style-type: none"> Find and make equal parts Recognise and find halves, quarters & thirds Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ Count in fractions 	<p>Number</p> <p>Fractions</p> <ul style="list-style-type: none"> Making the whole Tenths Fractions on a number line Fractions of a set of objects Equivalent fractions Compare, order, add and subtract fractions <p>Measurement</p> <ul style="list-style-type: none"> Tell and write the time from an analogue clock, including using Roman numerals and 12-hour and 24-hour clocks. O'clock and half past Quarter past and quarter to Months and years Hours in a day Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24 hour clock Finding the duration Comparing durations Start and end times Measuring time in seconds <p>Geometry – properties of shape</p> <ul style="list-style-type: none"> Turns and angles Right angles in shapes Draw accurately Horizontal and vertical Parallel and perpendicular Recognise and describe 2-D & 3D shapes <p>Measurement – mass and capacity</p> <ul style="list-style-type: none"> Compare, measure, add and subtract mass Measure, compare, add and subtract capacity Temperature 	<p>Students who have acquired the following skills will be ready to progress to the next level.</p> <p>Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.</p> <p>Apply place-value knowledge.</p> <p>Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction.</p> <p>Apply known multiplication and division facts to solve contextual problems.</p> <p>Add and subtract fractions with the same denominator, within 1.</p> <p>Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations.</p> <p>Draw polygons by joining marked points, and identify parallel and perpendicular sides.</p>

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Year 8-Mrs Nowacka	<p>Number and Place Value</p> <ul style="list-style-type: none"> -Recognise, finish, create and describe patterns. -Count with numbers from 1 to 20 and place them in order. -Read and write numbers from 1 to 20 in numerals and words. -Use number bonds to ten -Identify and represent numbers using objects to 20. -Identify number before/1 more and after/1 less than a given number to 20 <p><u>Extension:</u></p> <ul style="list-style-type: none"> -Count, read and write numbers to 100 in numerals. -Place numbers on a number line to 100 and other pictorial representations. -Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. -Identify 1 more or 1 less than a given number to 100 <p>Addition and Subtraction</p> <ul style="list-style-type: none"> -Understand addition as counting on and subtraction as counting back. -Add two 1-digit numbers and count on to find the answer using visual cues -Take away two 1-digit numbers and count back using visual cues. <p><u>Extension:</u></p> <ul style="list-style-type: none"> -Use number bonds to 10 to solve simple problems. -Add and take away 1-digit and 2-digit numbers to 20, including zero. 	<p>Addition and Subtraction</p> <ul style="list-style-type: none"> -Read, write and interpret mathematical statements involving +, – and = Understand put together, altogether, add, total, take away, distance between, difference, between, more than, less than -Use the language of most and least <p><u>Extension:</u></p> <ul style="list-style-type: none"> -Represent and use number bonds within 20 (understand the effect of + 0) - Solve 1-step problems that involve + and -, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$. -Begin recognising number patterns including evens and odds -Count in multiples of 2, 5 and 10 from different starting points. <p>Multiplication and Division</p> <ul style="list-style-type: none"> -Count in multiples of 2, 5 and 10 -Solve problems including doubling halving and sharing <p><u>Extension:</u></p> <ul style="list-style-type: none"> -Solve one-step problems involving \times and \div, by calculating the answer using concrete objects, pictorial representations and arrays with support <p>Fractions</p> <ul style="list-style-type: none"> -Recognise, find and name a $\frac{1}{2}$ as one of 2 equal parts and $\frac{1}{4}$ as one of 4 equal parts of an object or shape <p><u>Extension:</u></p> <ul style="list-style-type: none"> -Recognise, find and name a $\frac{1}{2}$ as one of 2 equal parts and $\frac{1}{4}$ as one of 4 equal parts of a quantity. -Make connections between $\frac{1}{2}$ and $\frac{1}{4}$ 	<p>Measures</p> <ul style="list-style-type: none"> -Use everyday language to talk about time and money to compare quantities and solve problems. -Recognise and know the value of different denominations of coins and notes. -Sequence events in chronological order using time related language. <p><u>Extension:</u></p> <ul style="list-style-type: none"> -Compare and solve practical problems for lengths and heights, mass and weights, capacity and volume and time e.g long/short, longer/shorter, tall/short, double/half, heavier, lighter, full/empty, more than half, quicker/slower, earlier/later -Recognise and use language relating to dates, including days of the week, weeks, months and years. <p>Position and Direction</p> <ul style="list-style-type: none"> -Describe position, direction and movement using everyday language. <p><u>Extension:</u></p> <ul style="list-style-type: none"> -Describe position, direction and movement using language of direction. -Recognise the word clockwise -Recognise and use physical movement to show whole, $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{3}{4}$ turns. 	<p>Recognising, finishing and describing patterns.</p> <p>Counting confidently forwards and backwards to 100.</p> <p>Understanding addition as counting on and subtraction as counting back.</p> <p>Counting in 2s, 5s and 10s & link this to repeated addition and subtraction.</p> <p>Recognising a half as one of two equal parts.</p> <p>Recognising a quarter as one of four equal parts.</p> <p>Recognising different coins and notes.</p> <p>Using mathematical language to sequence everyday events.</p> <p>Naming and ordering days of the week and months of the year.</p>

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YEAR 8 – Mr Duncan	<p>Addition and Subtraction Adding and subtracting, up to 3 digits, with borrowing and carrying.</p> <p>Number topics Factors, ratio, percentage of a number. Decimals. Factors.</p> <p>Multiplication and Division Multiplying and dividing up to 3 digit numbers by one digit. With remainders. Times table practise.</p> <p>Fractions Basic fractions followed by equivalent fractions. Adding and subtracting fractions with the same denominator. Fraction of a number.</p> <p>Measures Measuring and drawing angles. Properties of 2D shapes. Converting metric units</p> <p>Statistics Bar graphs, drawing and interpreting. Averages.</p>	<p>Number and Place Value Using place value to compare numbers and solve problems.</p> <p>Properties of Shape -Recognise, name, sort and describe properties of common 2D and 3D shapes and draw common 2D shapes -</p> <p>Fractions Revise previous work and extend to adding and subtracting fractions with different denominators. Multiply and divide fractions.</p> <p>Measures Use varied vocabulary (long/short/heavy light/full/empty/quick/slow/early/late) Measure and record capacity, length, weight and time</p> <p>Algebra Collecting terms Multiplying terms Expanding a bracket.</p>	<p>Number and Place Value Using place value to compare numbers and solve problems.</p> <p>Addition and Subtraction Adding and subtracting, up to 3 digits, with borrowing and carrying.</p> <p>Multiplication and Division Multiplying and dividing up to 3 digit numbers by one digit. With remainders. Times table practise.</p> <p>Measures Comparison of metric units and Imperial. Use varied vocabulary (long/short/heavy light/full/empty/quick/slow/early/late) Measure and record capacity, length, weight and time</p> <p>Algebra Collecting terms Multiplying terms Expanding a bracket. Solving simple equations.</p>	<p>Students fluent in using 4 rules of arithmetic.</p> <p>Recall of basic number skills eg. Fraction of a number. Percentage of a number. Dividing in a ratio.</p> <p>Fraction skills up to and including adding and subtracting fractions with different denominators.</p> <p>Basic algebra skills.</p> <p>Awareness of conversion of metric and Imperial units.</p> <p>Knowledge of properties of basic shapes.</p> <p>Understanding of basic statistics.</p> <p>Improved times table recall.</p>