

Progression in maths' teaching and learning at Bramhope Primary School in 2020-21

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place value - counting	-Count to 20, forwards and backwards.	- Count to and across 100, forwards, and backwards, beginning with 0 or 1, or from any given number - Count numbers to 100 in numerals; count in multiples of twos, fives and tens	- Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward	- Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	- Count in multiples of 6, 7, 9, 25 and 1000 - Count backwards through zero to include negative numbers	- Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 - Count forwards and backwards with positive and negative whole numbers, including through zero	
Place value – representing	- Count a group of objects or pictorial representations with 1:1 correspondence - Recognise numbers to 20 - Place numbers to 20 in order	- Identify and represent numbers using objects and pictorial representations - Read and write numbers to 100 in numerals - Read and write numbers from 1 to 20 in numerals and words	- Read and write numbers to at least 100 in numerals and in words - Identify, represent and estimate numbers using different representations including the number line	- Identify, represent and estimate numbers using different representations - Read and write numbers up to 1,000 in numerals and in words	- Identify, represent and estimate numbers using different representations - Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero as a place holder	- Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit - Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals	- Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit

Place value – comparing	<ul style="list-style-type: none"> - Identify one more and one less up to 20 	<ul style="list-style-type: none"> - Given a number, identify one more and one less 	<ul style="list-style-type: none"> - Recognise the place value of each digit in a two-digit number (tens, ones) - Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs 	<ul style="list-style-type: none"> - Recognise the place value of each digit in a three digit number (hundreds, tens and ones) - Compare and order numbers up to 1,000 	<ul style="list-style-type: none"> - Find 1,000 more or less than a given number - Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) - Order and compare numbers beyond 1,000 	<ul style="list-style-type: none"> - Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit 	<ul style="list-style-type: none"> - Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
Place value – rounding					<ul style="list-style-type: none"> - Round any number to the nearest 10, 100 or 1,000 	<ul style="list-style-type: none"> - Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10 000 and 100 000 	<ul style="list-style-type: none"> - Round any whole number to a required degree of accuracy
Place value – solving problems (including negative numbers)			<ul style="list-style-type: none"> - Use place value and number facts to solve problems 	<ul style="list-style-type: none"> - Solve number problems and practical problems involving these ideas 	<ul style="list-style-type: none"> - Solve number and practical problems that involve all of the above and with increasingly large positive numbers 	<ul style="list-style-type: none"> - Interpret negative numbers in context - Solve number problems and practical problems that involve all of the above. 	<ul style="list-style-type: none"> - Use negative numbers in context, and calculate intervals across zero - Solve number and practical problems that involve all of the above

Addition and subtraction – recalling, representing and using	<ul style="list-style-type: none"> - Using quantities and objects, add and subtract two single-digit numbers and count on or back to find the answer. 	<ul style="list-style-type: none"> - Read, write and interpret mathematical statements involving addition (+), subtraction (-) and the equals (=) signs - Represent and use number bonds and related subtraction facts within 20 	<ul style="list-style-type: none"> - Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 - Show that addition of two numbers can be done in any order (commutative) and subtraction of number from another cannot - Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems 	<ul style="list-style-type: none"> - Estimate the answer to a calculation and use inverse operations to check answers 	<ul style="list-style-type: none"> - Estimate and use inverse operations to check answers to a calculation 	<ul style="list-style-type: none"> - Use rounding to check answers to calculations and determine, in the context of the problem, levels of accuracy 	
Addition and subtraction – calculating		<ul style="list-style-type: none"> - Add and subtract one-digit and two-digit numbers to 20, including zero 	<ul style="list-style-type: none"> - Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <i>A two-digit number and ones</i> <i>A two-digit number and tens</i> 	<ul style="list-style-type: none"> - Add and subtract numbers mentally, including: <i>A three-digit number and ones</i> <i>A three-digit number and tens</i> <i>A three-digit number and hundreds</i> 	<ul style="list-style-type: none"> - Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate 	<ul style="list-style-type: none"> - Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) - Add and subtract numbers mentally with increasingly large numbers 	<ul style="list-style-type: none"> - Perform mental calculations, including with mixed operations and large numbers - Use their knowledge of the order of operations to carry out calculations

			<p><i>Two two-digit numbers</i></p> <p><i>Adding three one-digit numbers.</i></p>	<p>- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</p>			<p>involving the four operations</p>
<p>Addition and subtraction – solving problems</p>	<p>- Solve problems, including doubling, halving and sharing (practically).</p>	<p>- Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$</p>	<p>- Solve problems with addition and subtraction:</p> <p><i>using concrete objects and pictorial representations, including those involving numbers, quantities and measures</i></p> <p><i>applying their increasing knowledge of mental and written methods</i></p>	<p>- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p>	<p>- Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</p>	<p>- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>- Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</p>	<p>- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p>
<p>Multiplication and division – recalling, representing and using</p>			<p>- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>- Show that multiplication of two numbers can be done in any order (commutative) and division of one</p>	<p>- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p>	<p>- Recall multiplication and division facts for multiplication tables up to 12×12</p> <p>- Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying</p>	<p>- Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</p> <p>- Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</p>	<p>- Identify common factors, common multiples and prime numbers</p> <p>- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</p>

			<p>number by another cannot</p>		<p>together three numbers</p> <ul style="list-style-type: none"> - Recognise and use factor pairs and commutativity in mental calculations 	<ul style="list-style-type: none"> - Establish whether a number up to 100 is prime and recall prime numbers up to 19 - Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) 	
<p>Multiplication and division – calculating</p>			<ul style="list-style-type: none"> - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) sign. 	<ul style="list-style-type: none"> - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods 	<ul style="list-style-type: none"> - Multiply two-digit and three-digit numbers by a one-digit number using formal written layout 	<ul style="list-style-type: none"> - Multiply numbers up to 4 digits by a one-digit or two-digit number using a formal written method, including long multiplication for two-digit numbers - Multiply and divide numbers mentally drawing upon known facts - Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context 	<ul style="list-style-type: none"> - Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication - Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context - Divide numbers up to 4 digits by a

						<p>- Multiply and divide whole numbers and those involving decimals by 10,100 and 1000</p>	<p>two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</p> <p>- perform mental calculations, including with mixed operations and large numbers</p>
<p>Multiplication and division –solving problems</p>		<p>- Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher</p>	<p>- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context</p>	<p>- Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and harder correspondence problems such as <i>n objects are connected to m objects</i></p>	<p>- Solve problems involving multiplying and adding, including the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as <i>n objects are connected to m objects</i></p>	<p>- Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</p> <p>- Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</p>	<p>- Solve problems involving addition, subtraction, multiplication and division</p>

Multiplication and division – combining operations						<ul style="list-style-type: none"> - Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign 	<ul style="list-style-type: none"> - Use their knowledge of the order or operations to carry out calculations involving the four operations
Fractions – recognising and writing	<ul style="list-style-type: none"> - Understand if we cut an object into 2 pieces we have half. 	<ul style="list-style-type: none"> - Recognise, find and name a half as one of two equal parts of an object, shape or quantity - Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity 	<ul style="list-style-type: none"> - Recognise, find and name and write fractions $1/3$, $1/4$, $2/4$, $3/4$ of a length, shape, set of objects or quantity 	<ul style="list-style-type: none"> - Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 - Recognise, find and write fractions of a discrete set of objects; unit fractions and non-unit fractions with small denominators - Recognise and use fractions as numbers; unit fractions and non-unit fractions with small denominators 	<ul style="list-style-type: none"> - Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten 	<ul style="list-style-type: none"> - Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths - Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$] 	
Fractions - comparing			<ul style="list-style-type: none"> - Recognise the equivalence of $2/4$ and $1/2$ 	<ul style="list-style-type: none"> - Recognise and show, using diagrams, equivalent fractions with small denominators 	<ul style="list-style-type: none"> - Recognise and show, using diagrams, families of common equivalent fractions 	<ul style="list-style-type: none"> - Compare and order fractions whose denominators are all multiples of the same number 	<ul style="list-style-type: none"> - Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

				- Compare and order unit fractions, and fractions with the same denominators			- Compare and order fractions, including fractions >1
Fractions – calculating			- Write simple fractions for example, $\frac{1}{2}$ of 6 = 3	- Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]	- Add and subtract fractions with the same denominator	- Add and subtract fractions with the same denominator and denominators that are multiples of the same number - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	- Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions - Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] - Divide proper fractions by whole number [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$]
Fractions - Solving problems				- Solve problems that involve all of the above	- Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number		

Decimals – recognising and writing					<ul style="list-style-type: none"> - Recognise and write decimal equivalents of any number of tenths or hundredths - Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ 	<ul style="list-style-type: none"> - Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$] - Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents 	<ul style="list-style-type: none"> - Identify the value of each digit in numbers given to three decimal places
Decimals - comparing				<ul style="list-style-type: none"> - Round decimals with one decimal place to the nearest whole number - Compare numbers with the same number of decimal places up to two decimal places 	<ul style="list-style-type: none"> - Round decimals with two decimal places to the nearest whole number and to one decimal place - Read, write, order and compare numbers with up to three decimal places 		
Decimals – calculating and solving problems				<ul style="list-style-type: none"> - Find the effect of dividing a one or two digit number by 10 and 100, identifying the value of the digits in the answers as ones, tenths and hundredths 	<ul style="list-style-type: none"> - Solve problems involving number up to three decimal places 	<ul style="list-style-type: none"> - multiply and divide numbers by 10, 100 and 1000 giving answers up the three decimal places - Multiply one-digit numbers with up to two decimal places by whole numbers - use written division methods 	

							<p>in cases where the answer has up to two decimal places</p> <p>- Solve problems which require answers to be rounded to specified degrees of accuracy</p>
<p>Fractions, decimals and percentages</p>					<p>- Solve simple measure and money problems involving fractions and decimals to two decimal places</p>	<p>- Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</p> <p>- Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25</p>	<p>- Associate a fraction with division and calculate decimal equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]</p> <p>- Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p>
<p>Ratio and proportion</p>							<p>- Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</p>

							<ul style="list-style-type: none"> - Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison - Solve problems involving similar shapes where the scale factor is known or can be found - Solve problems involving unequal sharing or grouping using knowledge of fractions and multiples
<p>Algebra (introduced earlier than year 6 as 'missing numbers')</p>		<p><i>- Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$</i></p>	<p><i>- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems</i></p>	<p><i>- Solve problems, including missing number problems</i></p>			<ul style="list-style-type: none"> - Use simple formulae - Generate and describe linear number sequences - Express missing number problems algebraically - Find pairs of numbers that satisfy an equation with two unknowns - Enumerate possibilities of

							combinations of two variables
Measurement – using measures	<p>- Use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.</p>	<p>- Compare, describe and solve practical problems for</p> <p><i>Lengths and heights (e.g. long / short, longer / shorter, tall / short, double / half)</i></p> <p><i>Mass and weight (e.g. heavy / light, heavier than, lighter than)</i></p> <p><i>Capacity and volume (e.g. full / empty, more than, less than, half, half full, quarter)</i></p> <p><i>Time (e.g. quicker, slower, earlier, later)</i></p> <p>- Measure and begin to record the following</p> <p><i>Lengths and heights, mass / weight, capacity and volume, time (hours, minutes, seconds)</i></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 >, < and =</p>	<p>- Measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g); volume/capacity (l/ml)</p>	<p>- Convert between different units of measure (for example, kilometre to metre; hour to minute)</p> <p>- Estimate, compare and calculate different measures</p>	<p>- Convert between different units of metric measure (for example kilometre and metre, centimetre and metre, centimetre and millimetre, gram and kilogram, litre and millilitre)</p> <p>- Understand and use approximate equivalences between metric unit and common imperial units such as inches, pounds and pints</p> <p>- Use all four operations to solve problems involving measure (for example length, mass, volume, money) using decimal notation including scaling</p>	<p>- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</p> <p>- Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit and vice versa using decimal notation up to three decimal places</p> <p>- Convert between miles of kilometres</p>
Measurement - money	<p>- Use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.</p>	<p>- Recognise and know the value of different denominations of coins and notes</p>	<p>- 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</p>	<p>- Add and subtract amounts of money to give change, using both £ and p in practical contexts</p>	<p>- Estimate, compare and calculate different measures, including money in pounds and pence</p>	<p>- Use all four operations to solve problems involving measure (for example, money)</p>	

			<p>the same amounts of money</p> <ul style="list-style-type: none"> - Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change 				
<p>Measurement – time</p>	<ul style="list-style-type: none"> - Use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems. 	<ul style="list-style-type: none"> - Sequence events in chronological order using language (for example, before, after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) - Recognise and use language relating to dates, including days of the week, weeks, months and years - Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times 	<ul style="list-style-type: none"> - Compare and sequence intervals of time - 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 - Know the number of minutes in an hour and the number of hours in a day 	<ul style="list-style-type: none"> - Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12 hour and 24 hour clocks - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m/p.m, morning, afternoon, noon and midnight - Know the number of seconds in a minute and the number of days in each month, year and leap year 	<ul style="list-style-type: none"> - Read, write and convert time between analogue and digital 12- and 24- hour clocks - Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days 	<ul style="list-style-type: none"> - Solve problems involving converting between units of time 	<ul style="list-style-type: none"> - Use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa

				- Compare durations of events (for example to calculate the time taken by particular events of tasks)			
Measurement – perimeter, area and volume				- Measure the perimeter of simple 2D shapes	- Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres - Find the area or rectilinear shapes by counting squares	- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres - Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square meters (m ²) and estimate the area of irregular shapes - Estimate volume (for example, using 1cm ³ blocks to build cuboids – including cubes) and capacity (for examples, using water)	- Recognise that shapes with the same areas can have different perimeters and vice versa - Recognise when it is possible to use formulae for area and volume of shapes - Calculate the area of parallelograms and triangles - Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³) and extending to other units (for example, mm ³ and km ³).
Geometry – 2d shapes	- Explore characteristics of everyday objects and shapes and use mathematical	- Recognise and name common 2D shapes (for example, rectangles – including squares	- Identify and describe the properties of 2D shapes, including the number of sides and line	- Draw 2D shapes	- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles	- Draw 2D shapes using given dimensions and angles - Compare and classify geometric shapes based on

	language to describe them.	– circles and triangles)	<p>symmetry in a vertical line</p> <ul style="list-style-type: none"> - Identify 2D shapes on the surface of 3D shapes, (for example, a circle on a cylinder and a triangle on a pyramid) - Compare and sort common 2D shapes and everyday objects 		<ul style="list-style-type: none"> - Identify lines of symmetry in 2D shapes presented in different orientations 	<ul style="list-style-type: none"> - Use the properties of rectangles to deduce related facts and find missing lengths and angles 	<p>their properties and sizes</p> <ul style="list-style-type: none"> - Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
Geometry – 3d shapes	- Explore characteristics of everyday objects and shapes and use mathematical language to describe them.	- Recognise and name common 3D shapes (for example cuboids – including cubes – pyramids and spheres	<ul style="list-style-type: none"> - Recognise and name common 3D shapes (for example, cuboids – including cubes – pyramids and spheres - Compare and sort common 3D shapes and everyday objects 	- Make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them		- Identify 3D shapes, including cubes and other cuboids, from 2D representations	- Recognise, describe and build simple 3D shapes, including making nets
Geometry – Angles and lines				<ul style="list-style-type: none"> - Recognise angles as a property of a shape or a description of a turn - Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether 	<ul style="list-style-type: none"> - Identify acute and obtuse angles and compare and order angles up to two right angles by size - Identify lines of symmetry in 2D shapes presented in different orientations - Complete a simple symmetric figure with respect 	<ul style="list-style-type: none"> - Know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles - Draw given angles, and measure them in degrees - Identify: <p><i>Angles at a point and one whole turn (total 360°)</i></p>	<ul style="list-style-type: none"> - Find unknown angles in any triangles, quadrilaterals, and regular polygons - Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

				<p>angles are greater than or less than a right angle</p> <p>- Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p>	<p>to a specific line of symmetry</p>	<p><i>Angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°)</i></p> <p><i>Other multiples of 90°</i></p>	
Geometry – position and direction		<p>- Describe position, direction and movement, including whole, half, quarter and three-quarter turns</p>	<p>- Order and arrange combinations of mathematical objects in 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>- Describe positions on a 2D grid as coordinates in the first quadrant</p> <p>- Describe movements between positions as translations of a given unit to the left/right and up/down</p> <p>- Plot specified points and draw sides to complete a given polygon</p>	<p>- Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</p>	<p>- Describe positions on the full coordinate grid (all four quadrants)</p> <p>- Draw and translate simple shapes on the coordinate plane, and reflect them in the axes</p>
Statistics – presenting and interpreting			<p>- Interpret and construct simple pictograms, tally charts, block diagrams and simple tables</p>	<p>- Interpret and present data using bar charts, pictograms and tables</p>	<p>- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</p>	<p>- Complete, read and interpret information in tables, including timetables</p>	<p>- Interpret and construct pie charts and line graphs and use these to solve problems</p>

**Statistics –
solving
problems**

- Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity

- Ask and answer questions about totalling and comparing categorical data

- Solve one and two step questions (for example – ‘How many more?’ and ‘How many fewer?’) using information presented in scaled bar charts and pictograms and tables

- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

- Solve comparison, sum and difference problems using information presented in a line graph

- Calculate and interpret the mean as an average