

"Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers."

Shakantala Devi

MATHEMATICS SUBJECT OVERVIEW AND PURPOSE

WHY IS MATHS IMPORTANT? At South Bank MAT, our intent for our maths curriculum is to provide a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject. The teaching of maths in our Trust encourages



children to be resilient problemsolvers. We prepare pupils for the next stage in their learning and to use maths as a tool to assist in daily life. Through aspirational teaching and cross-curricular opportunities, maths is presented as a challenging, exciting, creative and purposeful subject. We base our mathematics around five principles: **representation and structure mathematical thinking**

- variation
- fluency and
- coherent small steps.

We believe in reinforcing key mathematical skills and vocabulary with our children, who then are given opportunities to apply this to reasoning and problemsolving scenarios. We are continually aiming to raise the standards of achievement of all children in our MAT to give them the best possible chance to achieve.

MATHEMATICS AND BEYOND

The mathematics teaching at South Bank MAT gives each child not only a broad knowledge base but also develops critical thinking skills which provides solid foundations to enable them to succeed throughout school and beyond.

Careers which the study of mathematics supports include:

- Statistician
- Meteorologist
- Teacher
- Software engineer
- Quantity survivor
- Research scientist
- Joiner
- Architect
- Doctor

Ultimately, our main goal is to foster a genuine love for mathematics.



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
PLACE VA	LUES						
Place value: Counting	 NURSERY Knows how to say one number for each item in order: 1,2, 3, 4, 5. Knows how to count the total number of objects by stopping on the last number. Knows how to recite numbers past 5. Know how to subitise up to 3 objects. RECEPTION Knows how to count objects, actions, sounds etc accurately using different strategies. Knows how to count beyond ten. Knows number bonds to 5 and some to 10. Knows and has a deep understanding of numbers to 10 including the composition of each number. Children know the vocabulary more/less than and can confidently count forwards and back up to the numbers they have learnt. Begin to use a number line to make small jumps and aid calculations. Children know that the addition of numbers/objects is adding the total together. Know that subtracting is taking away and can work out simple 	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 2, 5 and 10s.	Count in steps of 2, 3 and 5 from 0, and in 10s from and 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 	
	away and can work out simple addition and subtraction problems using objects and pictorial representations.						



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Place Value: represent	NURSERY Start to form some numbers correctly. Links numerals and amounts. Sequencing up to 5. Knows how some numerals look and has a go at mark making some of these. Knows how to link the numeral and amounts up to 5.	 Identify and represent numbers using objects and pictorial representations. Read and write numbers to 100 in numerals. Read any write numbers from 1 to 20 in words and numerals. 	 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 1000 in numerals and 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 and place value. 	 Read, write (order and compare) numbers to at least 1,000,000 and determine the value of each digit. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. 	Read, write (order and compare) numbers to at least 10,000,000 and determine the value of each digit.
	 Knows how to link the numeral with its cardinal number value. Start to form some numbers correctly. Know how many of something they see without counting up to 5. Knows how to link the numeral with its cardinal number value. 						
■ Place Value: Use PV and compare.	NURSERY Compare quantities and use relevant vocabulary – more/fewer. Knows and uses some positional language such as behind, next to. Make comparisons between objects. Begins to sequence events using first and then.	■ Given a number, identify 1 more and 1 less.	 Recognise the place value of each digit in a two-digit number (tens and ones). Compare and order numbers from 0 up to 100; use <> and = signs. 	 Recognise the place value of each digit in a three- digit number (hundreds, tens and ones). Compare and order numbers up to 1000. 	 Find 1000 more or less than a given number. Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones). Compare and order numbers beyond 1000. 	(Read, Write), order and compare numbers to at least 1,000,000 and determine the value of each digit	(Read, Write), order and compare numbers to at least 10,000,000 and determine the value of each digit.
	RECEPTION Knows how to and Understands comparing numbers. Knows ways to explore the composition of numbers to 10.						
Place Value: Problems and rounding			Use place value and number facts to solve problems.	■ Solve number problems and practical problems involving these ideas.	 Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above with increasingly large positive numbers. 	 Interpret negative numbers in context. Round any number up to 1,000,000 to the nearest 10, 100,1000, 10,000 and 100,000. Solve number problems and practical problems that involve all of the above 	 Round any whole number to a requires degree of accuracy. Use negative numbers in context and calculate intervals across zero. Solve number problems that involve all of the above.



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
ADDITIO	N AND SUBTRACT	ION					
Addition and subtraction: Recall, represent, Use	 NURSERY Knows and describes different patterns. Knows how to continue and create repeating patterns. Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. RECEPTION Can explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. 	 Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Represent and use number bonds and related subtraction facts within 20 	 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 one 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. 	Estimate the answer to a calculation and use inverse operations to check answers.	Estimate and use inverse operations to check answers to a calculation.	Use rounding to check answers to calculations and determine in the context of a problem levels of accuracy	
Addition and Subtraction: Calculations	 Children know that the addition of numbers/objects is adding the total together. Know that subtracting is taking away and can work out simple addition and subtraction problems using objects and pictorial representations. 	Add and subtract one digit and two-digit numbers to 20, including zero.	 Add and subtract numbers using concrete objects pictorial representations and mentally including: a two-digit number and ones a two-digit number and 10s two 2-digit numbers adding three one-digit numbers 	 Add and subtract numbers mentally including: a three-digit number and ones a three-digit number and 10s a three-digit number and hundreds. Add and subtract numbers with up to three digits using formal written methods of columnar addition and subtraction. 	Add and subtract numbers with up to four digits using formal written methods of columnar addition and subtraction where appropriate.	 Add and subtract whole numbers with more than four digits including using formal written methods (columnar addition and subtraction). Add and subtract numbers mentally with increasingly large numbers. 	 Perform mental calculations, including with mixed operations and large numbers. Use their knowledge of the order of operations to carry out calculations involving the four operations.
Addition and Subtraction: Solving Problems		 Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems such as T = 9 	 Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures. Applying their increasing knowledge of mental and written methods. 	Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction.	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Solve problems involving addition, subtraction, multiplication and division and a combination of these including understanding the meaning of the equals sign.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
MULTIPL	ICATION AND DIV	ISION					
Multiplication and Division: Recall, Represent, Use	RECEPTION Knows how to share evenly. Can split a group evenly to find the answer. Knows what odd and even numbers are.		 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables including recognising odd and even numbers. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. 	Recall and use multiplication and division facts for the three four and eight multiplication tables.	 Recall multiplication and division facts for multiplication tables up to 12 x 12. Use place value known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers. Recognise and use factor pairs and commutativity mental calculations. 	 Identify multiples and factors including finding all factor pairs of a number and common factors of two numbers. Know and use vocabulary of prime numbers, prime factors and composite (non prime) numbers. 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 and cubed. 	 identify common factors, common multiples and prime numbers use estimation to check to answers to calculations and determine, in the context of a problem. an appropriate degree of accuracy.
Multiplication and Division: calculation			calculate mathematical statements for multiplication and division within multiplication tables and write them using the multiplication division and equals signs	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	multiply two digit and three digit numbers by a one digit number using formal written layout	 multiply numbers up to four digits by a one 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 four digits by a one digit number using formal written method of short division and interpret remainders appropriately for the context multiply and divide whole numbers and those involving decimals by 10,100 and 1000 	 Multiply multi digit numbers up to four digits by a two digit whole number using the formal written method of long multiplication. Divide numbers up to four digits by a two digit whole number using the formal written method of long division and interpret remainders, fractions or by rounding as appropriate for the context. Divide number up to four digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context. Perform mental calculations including with mixed operations and large numbers.
Multiplication and Division: Solve Problems		 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. 	Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods, and multiplication and division facts including problems in contexts.	Solve problems including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	■ Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	 Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. Solve problems involving multiplication and division, including scaling by simple fraction and problems involving simple rates. 	Solve problems involving addition subtraction multiplication and division.



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Multiplication and Division: Combined Operations						Solve problems involving addition subtraction multiplication and division and a combination of these, including understanding the meaning of the equals sign.	Use their knowledge of the order of operations to carry out calculations involving the four operations.
FRACTIO	NS, DECIMALS, PE	RCENTAGES					
Fractions: Recognise and Write		 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. 	Recognise find name and write fractions 1/3, ¼, 2/4 and 3/4 of a length shape set of objects or quantity.	 Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers in or quantity's 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 and non-unit fractions and non-unit fractions and non-unit fractions and non-unit fractions with small denominators. 	Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10.	 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 mixed number for example. 	
Fractions: Compare			Recognise the equivalence of ² / ₄ and ¹ / ₂ .	 Recognise and show using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. 	Recognise and show using diagrams, families of common equivalent fractions.	Compare and order fractions whose denominators are all multiples of the same number.	 Use common factors to simplify fractions; ballsuse common multiples to express fractions in the same denomination nomination Fractions: compare and under order fractions, including fractions>1
Fractions: Calculations			■ Write simple fractions for example 1/2 of 6 = 3	■ Add and subtract fractions with the same denominator within one whole for example ■ \$\mu + 1\mu = \$\mu	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 ¼ x ½ = ¼) Divide proper fractions by whole numbers (for example ¼ ± 2 = ¼)
Fractions: Solve Problems				Solve problems that involve all of the above.	Solve problems involving increasingly hard fractions to calculate quantities, and fractions to divide quantities, including non- unit fractions where the answer is a whole number.		



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Decimals: Recognise and write					 Recognise and write decimal equivalents of any number of tenths or hundredths. Recognise and write decimal equivalent to ¼, ½, ¾ 	 Read and write decimal numbers as fractions for example 0.71 = 71/100 Recognise and use thousandths and relate them to tenths hundredths and decimal equivalents. 	Identify the value of each digit in numbers given to three decimal places.
Decimals: Compare					 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. 	 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: Calculations and Problems					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.	Solve problems involving number up to three decimal places.	 Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Multiply one-digit numbers with up to two decimal places by whole numbers. Use written division methods in cases where the answer has up to two decimal places. Solve problems which require answers to be rounded to specific degrees of accuracy.
Fractions, Decimals and Percentages					Solve simple measure and money problems involving fractions and decimals to two decimal places.	 Recognise the percent symbol and understand that percent relates to number of parts per hundred and write percentages as a fraction with the denominator 100 and as a decimal. Solve problems which require knowing percentage and decimal equivalents of ½, 1/4, 1/5, 2/5, 4/5 and those fractions with the nominator of a multiple of 10 or 25. 	 Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction. Recall and use equivalence is between simple fractions decimals and percentages including in different contexts.



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
RATIO AN	ID PROPORTION						
Ratio and Proportion							 Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving the calculation of percentages 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 and grouping using knowledge of fractions and multiples.
■ Algebra							 Use simple formula 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
MEASUR	EMENT						
Using Measure	RECEPTION ■ Knows how to compare weight, length and capacity using non-standard measurement methods such as measuring with string or blocks.	 Compare, describe and solve practical problems for: lengths and height mass/ weight capacity and volume Time. Measure and begin to record the following: lengths and height mass/ weight capacity /volume time (hours, minutes, seconds). 	 Choose and use appropriate standard units to estimate and measure length/ height in any direction. Mass temperature capacity to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels. Compare and order length, mass, volume/ capacity and record the results using > <and =<="" li=""> </and>	Measure, compare, add and subtract lengths (m/ cm/mm); mass (kg,g); volume/capacity (l/ml).	 Convert between different units of measure. Estimate compare and calculate different measures. 	 Convert between different units of metric measure. Understand and use approximate equivalence is between metric units and common imperial units such as inches pounds and pints. Use all four operations to solve problems involving measure using decimal notation including scaling. 	 Solve problems involving the calculation and conversion of units of measure using decimal notation up to three decimal places where appropriate. 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 notations up to three decimal places. Convert between miles and kilometres.



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Measurement: Money		Recognise and know the value of different denominations of coins and notes.	 Recognise and use the symbols for pounds (£) and pence (p) combine amounts to make a particular value. Find different combinations of coins that equal the same amount of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit including giving change. 	■ Add and subtract amount of money to give change using both pounds and pence in practical context.	Estimate, compare and calculate different measures including money in pounds and pence.	Use all four operations to solve problems involving measure for example money.	
Measurement: Time		 Sequence events in chronological order using language for example, before and 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 time to the hour and half past the hour and draw hands on the clock face to show these times. 	 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 the clock face to show these times. Know the number of minutes in an hour and the number of hours in a day. 	 Tell and write the time from an analogue clock including using roman numerals from i too 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, am/pm, 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. Compare durations of events for example to calculate the time taken by a particular event or task. 	 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. 	Solve problems involving converting between units of time.	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.
Measurement: Perimeter, Area, 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 of 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 and estimate the area of irregular shapes. Estimate volume for example using one-centimetre cubed blocks to build cuboids including cubes and capacity for example using water. 	 Recognise that shapes with the same area 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 and extending to other units.



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YEAR GROUP	EYFS	YEAR1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
GEOMET	RY						
Ceometry: 2D shapes	NURSERY Knows some 2d and 3d shapes and can talk about some properties. Knows how to use these shapes to their desired effect in play situations. Knows and describes different patterns. Knows how to continue and create repeating patterns. RECEPTION	Recognise and name, 2D shapes for example rectangles (including squares), circles and triangles.	 Identify and describe the properties of 2D shapes, including the number of sides and line of symmetry in a vertical line. 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. 	■ Draw 2D shapes.	 Compare and classify geometric shapes including quadrilaterals and triangles based on their properties and size. Identify lines of symmetry in 2D shapes presented on different orientations. 	 Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Use the properties of rectangles to juice related facts and find missing lengths and angles. 	 Draw 2D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes. Illustrate and name parts of circles including radius and diameter and circumference and know that the diameter is twice the radius.
	 Knows how to compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. Knows how to continue, copy and extend repeating patterns. 						
Geometry: 3D shapes	 NURSERY Knows some 2d and 3d shapes and can talk about some properties. Knows how to use these shapes to their desired effect in play situations. 	Recognise and name common 3D shapes for example cuboids including cubes pyramids and spheres.	 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.
	RECEPTION Knows how to select, rotate and manipulate shapes in order to develop spatial reasoning skills and knows some shape names.						
Geometry: Angles and lines				 Recognise angles as a property of shape or a description of a turn. identify right angles recognise that two right angles make half a turn three make 3/4 of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. identify horizontal and vertical lines and pairs of perpendicular and parallel lines. 	 Identify acute and obtuse angles and compare and order angles up to two right angles by size. identify lines of symmetry in 2d shapes represented in different orientations. Complete a simple symmetrical figure with respect to a specific line of symmetry. 	 Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles and measure them in degrees. Identify: Angles at a point and one whole turn Angles at a point on a straight line and half a turn. Other multiples of 90 degrees. 	 Find unknown angles in any triangles, quadrilaterals and regular polygons. recognise angles where they meet at a point, on a straight line or are vertically opposite and find missing angles.



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YEAR GROUP	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Geometry: Position and Direction	 Reception Knows how to select, rotate and manipulate shapes in order to develop spatial reasoning skills and knows some shape names. 	Describe position direction and movement, including whole, half, quarter and three-quarter turns.	 Order and arrange combinations of mathematical objects in patterns and sequences. 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. 		 Describe positions on a 2d grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down. Plot specified points and draw sides to given polygon. 	■ 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.	 Describe positions on the full coordinate grid all four quadrants. draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
STATISTI	CS						
Statistics: Present and interpret			Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	Interpret and present data using bar charts, pictograms and tables.	Interpret and present discrete and continuous data using appropriate graphical methods including bar charts and time graphs.	Complete read and interpret information in tables including timetables.	Interpret and construct pie charts and line graphs and use these to solve problems.
Statistics: Solve 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 step and two step questions (for example how many more? And how many fewer?) Using information presented in scaled bar chart and pick to grammes 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.