# St George's Central CE Primary School and Nursery

### **Progression in Maths**

	Place Value									
	Nursery	Reception		Year 1/Year 2 Year 3/Year 4		Year 3/Year 4		Year 5/Year 6		
•	Nursery  2 – 3 year olds  Use all available opportunities for finger play, outdoors and indoors.  Sing finger rymes which invove hiding and returning, like 'Two little dicky birds'.  Offer repeated experiences with the counting sequence in meaningful and varied contexts, outdoors and indoors.  Count fingers and toes, stairs, toys, food items, sounds and actions.	Reception  Match and sort items for a variety of criteria.  Count objects, actions and sounds.  Say how many there are after counting.  Count out a smaller number from a larger group.  Estimate how mant there might be before counting.  Compare amounts saying which has less and which has more.  Link the number symbol (numeral) with it's cardinal	•		•	Year 3/Year 4  Year 3  Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.  Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).  Compare and order numbers up to 1000.  Identify, represent and estimate numbers using different representations.  Read and write numbers up to	•	Year 5/Year 6 Year 5 Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.		
•	Help children to match their counting words with objects. Compare amounts, saying 'lots', 'more' or 'same'. Children show counting like behaviour, such as making sounds, pointing or saying some numbers in sequence. Children begin to count sometimes skipping numbers saying 1-2-3-5.  3-4 year olds Fast recognition of up to 3 objects. Recite numbers past 5.	<ul> <li>Can partition and recombine sets of numbers.</li> <li>Children can use fingers, dice, tens frames etc. to show their understanding of composition.</li> <li>Have a deep understanding of number to 10, including the composition of each number;</li> <li>Subitise up to 5.</li> <li>Verbally count beyond 20, recognising the pattern of the counting system.</li> </ul>	•	number line, and use the language of: equal to, more than, less than (fewer), most, least.  Read and write numbers from 1 to 20 in numerals and words.  Year 2  Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward Recognise the place value of each digit in a two-digit number (tens, ones).	•	Solve number problems and practical problems involving these ideas.  Year 4  Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number.  Count backwards through zero to include negative numbers.  Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).	•	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.  Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.  Year 6  Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.		

•	Say one number for each item
	in order: 1,2,3,4,5.
•	Know that the last number
	reached when counting a small
	set of objects tells you how
	many there are in total
	(cardinal principal).
•	Show 'finger numbers' up to 5.
•	Links numerals to amounts: for
	example, showing the right
	number of objects to match the
	numeral, up to 5 initially.
•	Experiment with their own
	symbols and marks as well as
	numerals to represent
	amounts.
•	Solve real world mathematical
	problems with numbers up to 5
	initially.

Be able to subitise with

Can compare two small amounts and say which is more and then touch count to say

Knows what one more than a

given amount is.

amounts up to 5.

• Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.

more do we need?'.

- Identify, represent and estimate numbers using different representations, including the number line.
- Compare and order numbers from 0 up to 100; use <, > and = signs.
- Read and write numbers to at least 100 in numerals and in words.
- Use place value and number facts to solve problems.

- Order and compare numbers beyond 1000
- identify, represent and estimate numbers using different representations.
- Round any number to the nearest 10, 100 or 1000.
- Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
- 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.

calculation and use inverse

operations to check answers.

- Round any whole number to a required degree of accuracy.
- Use negative numbers in context, and calculate intervals across zero.
- Solve number and practical problems that involve all of the above.

in the context of a problem,

levels of accuracy.

	how many altogether.										
	Addition and Subtraction										
	Nursery	Reception	Year 1/Year 2	Year 3/Year 4	Year 5/Year 6						
	<u>2 – 3 year olds</u>	<ul> <li>Understand the 'one more</li> </ul>	<u>Year 1</u>	Year 3	<u>Year 5</u>						
•	Draw attention to changes in	than/one less than' relationship	• Read, write and interpret	Add and subtract numbers	<ul> <li>Add and subtract whole</li> </ul>						
	amounts, for example, by	between consecutive numbers.	mathematical statements	mentally, including: a three-	numbers with more than 4						
	adding more bricks to a tower,	<ul> <li>Can automatically recall</li> </ul>	involving addition (+),	digit number and ones; a three-	digits, including using formal						
	or eating things up.	number bonds for numbers 0-	subtraction (–) and equals (=)	digit number and tens; a three-	written methods (columnar						
•	Childen regularly play with	10.	signs.	digit number and hundreds.	addition and subtraction).						
	loose parts and bowls and	<ul> <li>Children use every day</li> </ul>	• Represent and use number	Add and subtract numbers with	<ul> <li>Add and subtract numbers</li> </ul>						
	baskets to experience amounts	experiences to apply their	bonds and related subtraction	up to three digits, using formal	mentally with increasingly large						
	and changes in amounts.	number bonds learning, for	facts within 20.	written methods of columnar	numbers.						
		example 'There are 6 of us but	<ul> <li>Add and subtract one-digit and</li> </ul>	addition and subtraction.	<ul> <li>Use rounding to check answers</li> </ul>						
	3-4 year olds	only two clipboards. How many	two-digit numbers to 20,	<ul> <li>Estimate the answer to a</li> </ul>	to calculations and determine,						

including zero.

Can compare quantities using Automatically recall (without Solve one-step problems that problems. Solve addition and subtraction Solve including language: 'more than', 'fewer reference to rhymes, counting involve addition missing number problems, problems and multi-step than'. or other aids) number bonds up using number facts, place value, deciding subtraction, using concrete contexts, which to 5 (including subtraction pictorial and more complex addition and operations and methods to use objects and facts) and some number bonds representations, and missing subtraction. and why. to 10, including double facts. number problems such as  $7 = \prod -9$ . Year 4 Year 6 Add and subtract numbers with Perform mental calculations. Year 2 up to 4 digits using the formal including with mixed Solve problems with addition written methods of columnar operations and large numbers. and subtraction: using concrete addition and subtraction where Use their knowledge of the objects and pictorial appropriate. order of operations to carry out representations, including calculations involving the four Estimate and use inverse those involving numbers, operations to check answers to operations. quantities and measures, a calculation. Solve addition and subtraction applying their increasing Solve addition and subtraction multi-step problems knowledge of mental and two-step problems in contexts, contexts, deciding which written methods. deciding which operations and operations and methods to use Recall and use addition and methods to use and why. and why. subtraction facts to 20 fluently. Solve problems involving and derive and use related facts addition, subtraction, up to 100. multiplication and division. Add and subtract numbers Use estimation to check using concrete objects, pictorial answers to calculations and representations, and mentally, determine, in the context of a including: a two-digit number problem, appropriate and ones; a two-digit number degree of accuracy. tens; two two-digit numbers; adding three onedigit numbers. Show that addition of two numbers can be done in any (commutative) order subtraction of one number from another cannot. Recognise and use the inverse relationship between addition and subtraction and use to check calculations and solve missing number problems.

Multiplication and Division									
Nursery	Reception	Year 1/Year 2	Year 3/Year 4	Year 5/Year 6					
2 – 3 year olds  Children react to changes of amount in a group of up to three items.  3-4 year olds  Children react to changes of amount in a group of up to five items.	<ul> <li>Count verbally beyond 10, pausing at each multiple of 10 to draw out the structure.</li> <li>Explore and represent patterns within numbers up to 10, including evens and odds,</li> </ul>	Year 1  Year 1  Year 1  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.  Year 2  Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.  Calculate statements for multiplication and division within the multiplication tables and write them using multiplication, division and equals signs.  Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.  Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	Year 3 Year 3  Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.  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.  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.  Year 4  Recall multiplication and division facts for multiplication tables up to 12 × 12.  Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.  Recognise and use factor pairs and commutativity in mental calculations.  Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.	<ul> <li>Year 5</li> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>Know and use the vocabulary of prime numbers, prime factors, composite numbers.</li> <li>Establish whether a number up to 100 is prime and recall prime numbers up to 19.</li> <li>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</li> <li>Multiply and divide mentally drawing upon known facts.</li> <li>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.</li> <li>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</li> </ul>					

<ul> <li>Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</li> <li>Solve problems involvation, division an combination of the understanding the meaning the = sign.</li> <li>Solve problems involvation including scaling by sin fractions and problems.</li> </ul>
Multiply multi-digit number to 4 digits by a two-digit who number using the for written method of multiplication.     Divide numbers up to 4 digit a two-digit whole number uthe formal written method and interpret remainders whole number remainders whole number remainders fractions, or by rounding.     Perform mental calculation including with micoperations and large number lidentify common fact.
common multiples and prinumbers.  Use their knowledge of order of operations to carry calculations involving the footones.  Solve problems involving addition, subtract multiplication and division.  Use estimation to chanswers to calculations determine, in the context oproblem, an approprint degree of accuracy.

		Fractions, Decimals and Percentages		
Nursery	Reception	Year 1/Year 2	Year 3/Year 4	Year 5/Year 6
		<ul> <li>Year 1</li> <li>Recognise, find and name a half as one of two equal parts of an object, shape or quantity.</li> <li>Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</li> <li>Year 2</li> <li>Recognise, find, name and write fractions \$\frac{1}{3}, \frac{1}{4}, \frac{2}{4}, \frac{3}{4}\$ of a length, shape, set of objects or quantity.</li> <li>Write simple fractions for example, \$\frac{1}{2}\$ of \$6 = 3\$ and recognise the equivalence of \$\frac{2}{4}\$ and \$\frac{1}{2}\$.</li> </ul>	<ul> <li>Year 3</li> <li>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.</li> <li>Recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators.</li> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>Add and subtract fractions with the same denominator within one whole.</li> <li>Compare and order unit fractions, and fractions with the same denominators.</li> <li>Solve problems that involve all of the above.</li> <li>Year 4</li> <li>Recognise and show, using diagrams, families of common equivalent fractions.</li> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li> </ul>	<ul> <li>Year 5</li> <li>Compare and order fractions whose denominators are all multiples of the same number.</li> <li>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</li> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements &gt; 1 as a mixed number.</li> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> <li>Read and write decimal numbers as fractions.</li> <li>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</li> <li>Round decimals with two decimal places to the nearest whole number and to one decimal place.</li> </ul>

	<ul> <li>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.</li> <li>Add and subtract fractions with the same denominator</li> <li>Recognise and write decimal equivalents of any number of tenths or hundredths.</li> <li>Recognise and write decimal equivalents to \$\frac{1}{4}, \frac{1}{2}, \frac{2}{4}, \frac{1}{2}, \frac{2}{4}, \frac{1}{2}, \frac{2}{4}, \frac{1}{2}, \frac{2}{4}, \frac{1}{2}, \frac{2}{3}, \frac{4}{5}, \frac{5}{5}, \frac{5}{5}, \frac{4}{5} \text{ and those fractions with a decimal equivalents to \$\frac{1}{4}, \frac{1}{2}, \frac{2}{4}, \frac{1}{2}, \frac{2}{4}, \frac{1}{5}, \frac{2}{5}, \frac{5}{5}, \frac{4}{5} \text{ and those fractions with a decimal equivalents to \$\frac{1}{4}, \frac{1}{2}, \frac{2}{4}, \frac{1}{2}, \frac{2}{4}, \frac{2}{5}, \frac{5}{5}, \frac</li></ul>
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		Management		<ul> <li>Multiply one-digit numbers with up to two decimal places by whole numbers.</li> <li>Use written division methods in cases where the answer has up to two decimal places.</li> <li>Solve problems which require answers to be rounded to specified degrees of accuracy.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>
Nursery	Reception	Measurement Year 1/Year 2	Year 3/Year 4	Year 5/Year 6
2 – 3 year olds	Can talk about the passing of	Year 1	Year 3	Year 5
<ul> <li>Provide blocks and boxes to play freely with and build with, outdoors and indoors.</li> <li>Compare sizes, weights etc. using gesture and language, 'bigger/little/smaller', 'high/low', 'tall', 'heavy'.</li> <li>Children begin to use the language of size and weight in everyday context.          3-4 year olds</li> <li>Children can talk about what comes next during the day and knows the difference between day and night.</li> <li>Make comparisons between objects relating to size, length and weight.</li> <li>Make comparisons between objects relating to capacity.</li> <li>Children can use some associated language with</li> </ul>	<ul> <li>Can use comparative language to compare length, mass and capacity.</li> <li>Children can make and test predictions, eg – 'what if we pour the water from the jug into the teapot? Which holds more?'</li> </ul>	<ul> <li>Compare, describe and solve practical problems for lengths and heights, mass/weight and capacity, volume and time</li> <li>Measure and begin to record lengths and heights, mass/weight, capacity, volume and time.</li> <li>Recognise and know the value of different denominations of coins and notes.</li> <li>Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening].</li> <li>Recognise and use language relating to dates, including days of the week, weeks, months and years.</li> <li>Tell the time to the hour and</li> </ul>	<ul> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> <li>Measure the perimeter of simple 2-D shapes.</li> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> <li>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> <li>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,</li> </ul>	<ul> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</li> <li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li> <li>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</li> <li>Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the</li> </ul>
capacity, for example, 'full', 'empty'' 'holds more', 'holds less'.		half past the hour and draw the hands on a clock face to show these times.	<ul><li>noon and midnight.</li><li>Know the number of seconds in a minute and the number of</li></ul>	area of irregular shapes.

#### Year 2

- 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.
- Compare and order lengths, mass, volume/capacity and record the results using >, < and =.
- Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.
- Find combinations of coins that equal the same amounts of money.
- Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
- 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.

- days in each month, year and leap year.
- Compare durations of events.

#### Year 4

- Convert between different units of measure (including time).
- Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
- Find the area of rectilinear shapes by counting squares.
- Estimate, compare and calculate different measures, including money in pounds and pence.
- 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.

- Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water].
- Solve problems involving converting between units of time.
- Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

#### Year 6

- 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 length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
- Convert between miles and kilometres.
- 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 (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³].
		Properties of shape	N 264	y = 6;
Nursery	Reception	Year 1/Year 2	Year 3/Year 4	Year 5/Year 6
<ul> <li>2 – 3 year olds</li> <li>Children play daily with large and small blocks indoors and outdoors.</li> <li>Provide inset puzzles and jigsaws at different levels of ability.</li> <li>Children begin to notice patterns that they see all around them.</li> <li>Children begin to arrange things in patterns.</li> <li>3-4 year olds</li> <li>Talk about and explore 2D shapes using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'.</li> <li>Can talk about and identify patterns around them. Uses informal language like 'pointy', 'spotty' etc. to describe pattern.</li> <li>Create ABABAB patterns</li> <li>Selects shapes appropriately for desired outcome.</li> <li>Combines shapes to make new ones.</li> </ul>	<ul> <li>Name and recognise 2D shapes.</li> <li>Select, rotate and manipulate 2D shapes in order to develop spatial reasoning skills.</li> <li>Can continue, copy and create repeating patterns.</li> <li>Name and recognise 3D shapes.</li> <li>Select, rotate and manipulate 3D shapes in order to develop spatial reasoning skills.</li> <li>Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.</li> <li>Find 2D shapes within 3D shapes, including through printing or shadow play.</li> </ul>	Year 1  Recognise and name common 2-D and 3-D shapes.  Year 2  Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.  Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.  Identify 2-D shapes on the surface of 3-D shapes.  Compare and sort common 2-D and 3-D shapes and everyday objects.	<ul> <li>Year 3</li> <li>Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.</li> <li>Recognise angles as a property of shape or a description of a turn.</li> <li>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 angles are greater than or less than a right angle.</li> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> <li>Year 4</li> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</li> </ul>	degrees: estimate and compare acute, obtuse and reflex angles.  • Draw given angles, and measure them in degrees (°).

			<ul> <li>Identify lines of symmetry in 2-D shapes presented in different orientations.</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry.</li> </ul>	<ul> <li>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.</li> <li>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.</li> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>
		Position and Direction	y 2/y	V 5/V 6
Nursery	Reception	Year 1/Year 2	Year 3/Year 4	Year 5/Year 6
<ul> <li>2 - 3 year olds</li> <li>Encourage children to climb and squeeze selves into different types of spaces.</li> <li>Describe children's climbing, tunnelling and hiding using spatial words like 'on top of', 'up', 'down' and 'through'.</li> <li>3-4 year olds</li> <li>Understand position through words alone, for example, 'The bag is under the table', with no pointing.</li> <li>Children use spatial words in play.</li> </ul>	<ul> <li>Select, rotate and manipulate 2D shapes in order to develop spatial reasoning skills.</li> <li>Select, rotate and manipulate 3D shapes in order to develop spatial reasoning skills.</li> </ul>	<ul> <li>Year 1</li> <li>Describe position/ direction/ movement, including whole, half, quarter and three-quarter turns.</li> <li>Year 2</li> <li>Order and arrange combinations of mathematical objects in patterns and sequences.</li> <li>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).</li> </ul>	<ul> <li>Year 4</li> <li>Describe positions on a 2-D grid as coordinates in the first quadrant.</li> <li>Describe movements between positions as translations of a given unit to the left/right and up/down.</li> <li>Plot specified points and draw sides to complete a given polygon.</li> </ul>	Year 5  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.  Year 6  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.

	Statistics								
Nursery	Reception	Year 1	/Year 2	Year 3/Year 4	Year 5/Year 6				
2 – 3 year olds  Adults use the words 'same' over and over so the children will understand when something is the same or different.  3-4 year olds  Notice and correct an error in a simple repeating pattern.	Can sequence 4 and then 6 pictures	<ul> <li>Interpret and pictograms, diagrams and</li> <li>Ask and questions be number of category are categories by</li> <li>Ask and a</li> </ul>	d construct simple tally charts, block simple tables.  answer simple y counting the objects in each and sorting the quantity.  nswer questions and and comparing	<ul> <li>Year 3</li> <li>Interpret and present data using bar charts, pictograms and tables.</li> </ul>	Year 5  Solve comparison, sum and difference problems using information presented in a line graph.				
R	atio and Proportion		Algebra						
<ul> <li>found by using integer multiplica</li> <li>Solve problems involving the calc of percentages for comparison.</li> <li>Solve problems involving similar</li> </ul>	Year 6 Itive sizes of two quantities where misition and division facts. It will be a series of two quantities where misition and division facts. It will be a series factor is known and grouping using knowledges.	f 360°] and the use	<ul><li>Express missing</li><li>Find pairs of respectively</li></ul>	Year 6  rmulae. I describe linear number sequences.  ng number problems algebraically.  numbers that satisfy an equation with toossibilities of combinations of two varia					