			Fractions						
Recognise and write									
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	*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 1/4 2/4 and $\frac{3}{4}$ of a length, shape, set of objects or quantity.	*count up and down in tenths; recognize 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: it fractions and non- unit fractions with small denominators.	*count up and down in hundredths; recognize that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	*identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. *recognize mixed numbers and improper fractions and convert one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5.				
			Compare						
*Recognise the equivalence of 2/4 and 1/2 *Recognise and show, equivalence of 2/4 and 1/2 *recognise and show, using diagrams, equivalent fractions with small denominators. *compare and order with small denominators. *compare and order unit fractions, and fractions with the same denominators *Compare and order unit fractions, and fractions with the same denominators									
			Calculations						

## St John the Evangelist Maths Progression in Skills 2

*write simple fractions,	*add and subtract	*add and subtract	*add and subtract	*add and subtract
for example $\frac{1}{2}$ of 6 = 3	fractions with the	fractions with the	fractions with the	fractions with
	same denominator	same denomitor	same denominator and	different denominators
	within one whole [ for		denominators that are	and mixed numbers,
	example, 5/7 + 1/7 =		multiples of the same	using the concept of
	6/7]		number	equivalent fractions.
			*multiply proper	*multiply simple pairs
			fractions and mixed	of proper fractions,
			numbers by whole	writing the answer in
			numbers, supported by	its simplest form [for
			materials and diagrams.	example,
				*divide proper
				fractions by whole
				numbers [for example
				1/3 ÷ 2 = 1/6
	Solve Problems			
	*solve problems that	*solve problems		
	involve all of the above	involving increasingly		
		harder fractions to		
		calculate quantities,		
		and fractions to divide		
		quantities, including		
		non-unit fractions		
		where the answer is a		
		whole number.		

Fractions, Decimals and Percentages											
	Recognise, write and compare										
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
				*recognise and write decimal equivalents of any number of tenths or hundredths *recognise and write decimal equivalents to 1/4 ,1/2,3/4	*read and write decimal numbers as fractions [for example 0.71 = 71/100 *recognise and use thousandths and relate them to tenths,	*identify the value of each digit in numbers given to three decimal places					

1				
		*round decimals with	hundredths and decimal	*associate a fraction
		one decimal place to	equivalents.	with a division and
		the nearest whole	*round decimals with	calculate decimal
		number	two decimal places to	fraction equivalents
		*compare numbers with	the nearest whole	[for example, 0.375 for
		the same number of	number and to one	a simple fraction, for
		decimal places up to	decimal place	example 3/8]
		two decimal places	*read, write, order and	*recall and use
			compare numbers with	equivalences between
		*solve simple measure	up to three decimal	simple fractions,
		and money problems	places	decimals and
		involving fractions and		percentages, including
		decimals to two decimal	*recognise the per cent	in different contexts.
		places.	symbol (%) and	
			understand that per	
			cent relates to 'number	
			of parts per 100', and	
			write percentages as a	
			fraction with	
			denominator 100, and	
			as a decimal.	
			*solve problems which	
			require knowing	
			percentage and decimal	
			equivalents of	
			±_,1/4,1/5,2/5,4/5 and	
			those fractions with a	
			denominator of a	
			multiple of 10 or 25.	

	Ratio and proportion							
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
						*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/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		·	· ·		
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 -= ? -9	*recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	*solve problems, including missing number problems	*solve problems, including missing number problems	*solve problems, including missing number problems	*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
			Lising measures			
Farly Vears	Vear 1	Vear 2	Vear 3	Vear 4	Vear 5	Vear 6
*Order two or three items by length or height *Order two items by weight or capacity ELG: Use every day language to talk about size, weight, capacity and money to compare quantities and objects and to solve problems.	*compare, describe and solve practical problems for: #lengths and heights #mass/weight #capacity and volume #time Measure and begin to record the following: #lengths and heights #mass/weight #capacity and volume #time (hours, minutes, seconds)	*choose 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, volumes/capacity and record the results using >, < and =	*measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume and capacity (l/ml)	*convert between different units of measure [for example km to m; hour to minute] *estimate, compare and calculate different measures	*convert between different units of metric measure *understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. *use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	*solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 d.p. 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 notation up to 3 d.p. *convert between miles and kilometres
			Money		Γ	Γ
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Use everyday language relating to money	*recognise and know the value of different denominations of coins and notes	*recognise and use symbols for pounds (£) and pence (p); Combine amounts to make a particular value *find different combinations of coins	*add and subtract amounts of money to give change, using both £ and p in practical contexts	*estimate, compare and calculate different measures, including money in pounds and pence	*use all four operations to solve problems involving measure [for example, money]	

	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 some change.	Time			
Farly Vears Vear 1	Vear 2	Vear 3	Vear 4	Vear 5	Vear 6
Early YearsYear 1*Measure short periods of time in simple ways *Use everyday language relating to time.*sequence events using 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 o the week, weeks, months and years.*tell the time to the hour and half past the hour and draw hands on clock faces to show these times	Year 2         *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	Year 3 *tell and write the time from an analogue clock, using roman numbers 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 am./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. *compare durations of events [for example to calculate the time taken by a particular event or tasks]	Year 4 *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.	Year 5 *solve problems involving converting between units of time	Year 6 * 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.

Perimeter, area, volume						
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			*measure the perimeter of simple 2d shapes	*measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m *find the area of rectilinear shapes by counting squares	*measure and calculate the perimeter of composite rectilinear shapes in cm and m *calculate and compare the area of rectangles (including squares) and including using standard units, square cm (cm <sup>2</sup> and square m <sup>2</sup> and estimate the area of irregular shapes *estimate volume [for example using blocks to build cuboids] and capacity [eg. 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 shapes *calculate the area of parallelograms and triangles *calculate, estimate and compare volume of cubes and cuboids, using standard units, including cubic cm (cm <sup>3</sup> ) and cubic m (m <sup>3</sup> ) and extending to other units
			Geometry			
			2D shapes			
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
*Use familiar objects and common shapes to create and recreate patterns and build models. *Select a particular named shape. *Begin to use mathematical names for 2d shapes	*recognise and name common 2d shapes [for eg. rectangles, squares, circles and triangles)	*identify and describe 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 eg. a circle on a cylinder and a triangle on a pyramid]	*draw 2d shapes	*compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes *identify lines of symmetry in 2d shapes presented in different orientations	*distinguish between regular and irregular polygons based on reasoning about equal sides and angles*use the properties of rectangles to deduce 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, diameter and circumference and

*Begin to use mathematical terms to describe shapes. ELG Recognise, create and describe pattern. Explore characteristics of everyday objects and shapes and use mathematical language to describe them.		*compare and sort common 2d shapes and everyday objects				know that the diameter is twice the radius.
			3D shapes			
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
*Begin to use mathematical names for 3d shapes	*recognise and name common 3d shapes [for eg. cuboids, cubes, pyramids and spheres	*recognise and name common 3d shapes [for eg. cuboids, 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.
			Angles and lines			-
Early Years *Describe relative position such as behind, next to. ELG Use everyday language to talk about position and distance to compare and solve problems	Year 1	Year 2	Year 3 *recognise angles as a property of shape or a description of a turn *identify right angles, recognise that two right angles make a half turn, three make a three quarters of a turn and four a complete turn; identify whether angles are	Year 4 *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	Year 5 *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 whole turn (total 360°)	Year 6 *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

	greater than or less	respect to a specific	>angles at a point on a	
	than a right angle	line of symmetry.	straight line and $\frac{1}{2}$ a	
	*identify horizontal		turn (total 180°)	
	and vertical lines and		>other multiples of 90°	
	pairs of perpendicular		·	
	and parallel lines			

Statistics										
Present and Interpret data										
Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
		*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				
		Sol	ve statistical probl	ems						
		*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 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				