Maths



St Joseph's Catholic Primary School, a Voluntary Academy, Langwith Junction.

	Maths- Year 6											
Advent 1Advent 2Children willChildren willknow:know:		Lent 1 Children will know:	Lent 2 Children will know:	Pentecost 1 Children will know:	Pentecost 2 Children will know:							
Place value	Multiplication and	Decimals	Ratio:	Algebra	 Consolidate previous 							
 How to recognise the place value of digits in numbers up to 100,000. How to recognise the place value of digits in numbers up to 1 million. How to recognise the place value of digits in numbers up to 10 million 	 Division: How to multiply a 4 digit number by a 1 digit number using formal written methods (short multiplication). How to multiply a 2 digit number by a 2 digit number using formal written methods (long multiplication) How to multiply a 3 digit number 	 How to recognise the place value of numbers with up to 2dp. How to recognise the place value of numbers with up to 3dp. How to represent numbers up to 3dp in different ways. How to compare and order 	 How to use ratio language including 'for every' to compare between two different quantities. How to use objects and diagrams to compare ratios and fractions. How to use a colon for the ratio symbol and link this with the language 'for every'. 	 How to follow one step instructions/rules using function machines. How to follow two step instructions/rules using function machines. How to use the inverse to find the initial number from the answer. How to substitute numbers into simple 	previous learning and complete themed projects.							
 How to read and write numbers in figures up to 10 million. 	by a 2 digit number using formal written	 Numbers up to 3dp. How to multiply numbers up to 	 How to calculate ratios being able to find both a part and a whole. 	 simple expressions to find answers. How to form one step equations 								

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•	How to read and		methods (long		3dp by a 1 digit	•	How to enlarge		using algebraic
	write numbers		multiplication)		number.		shapes to make		notion.
	in words up to	٠	How to multiply	•	How to multiply		them 2 or 3	•	How to solve one
	10 million.		a 4 digit number		numbers up to		times as big etc		step equations
•	How to		by a 2 digit		3dp by a 2 digit		using scale		using the 4
	represent		number using		number.		factor, drawing		operations.
	numbers up to		formal written	•	How to divide		these on a single	•	How to solve two
	10 million in		methods (long		numbers up to		guadrant grid.		step equations
	different ways.		multiplication).		3dp by a 1 digit	•	How to calculate		using the 4
•	How to compare	•	How to use		number.		the scale factor		operations.
	numbers up to		formal written	•	How to use		of similar shapes.	•	How to use
	10 million using <		multiplication		multiplication	•	Solve problems		substitution to
	>=		methods to find		and division of		involving ration		find pairs of
•	How to order		missing numbers		decimals to		and proportion.		values (e.g.
	numbers up to		and digits.		solve problems.				a+b=6)
	10 million.	•	How to divide 4	•	How to convert	Pe	rimeter Area		,
•	How to round		digits numbers		decimals to	an	d Volume:	Co	nvertina Units
	numbers to the		by a 1 digit		fractions	•	How to calculate	•	How to read
	nearest 10,100		number using		(tenths and	•	the area and		write and
	and 1000.		the short		hundredths).		nerimeter of		recognise all
•	How to round		division method.	•	How to convert		rectilinear		metric measures
	numbers to the	•	How to divide 4		fractions to		shapes		for length mass
	nearest whole		digit numbers		decimals using	•	How to draw		and capacity (mm.
	number, tenths		by 2 digit		their knowledge		rectilinear		cm. m. km. g. kg.
	and hundredths.		numbers using		of tenths and		shapes that have		ml. l)
•	How to round		the short		hundredths.		the same area	•	How to use their
	numbers up to		division method.	•	How to convert	•	How to draw		estimation skills
	10 million to the	•	How to divide 4		fractions to		rectilinear		in context and
	nearest 10,000,		digit numbers				shapes that have		decide when it is

	and subtraction	•	How to divide 4	•	How to find	•	How to read and	
	methods to find		digit numbers		percentages of		interpret	
	missing digits		by 2 digit		amounts to the		information from	
	and numbers.		numbers using		nearest 10%,		line graphs.	
•	How to use		the long division		5% and 1%.	•	How to draw	
	inverse		method where				their own line	
	operations to		remainders are	Ge	ometry: Position		graphs using the	
	find missing		involved.	and	d Direction:		most appropriate	
	numbers and	•	How to multiply	•	How to read and		scales and	
	check		by 10,100 and		plot co-		intervals for the	
	calculations.		1000 beginning		ordinates on a		data.	
•	How to		to do this		single guadrant	•	How to solve	
	understand the		mentally.		grid.		problems using	
	commutative law			•	How to draw		line graphs.	
	to support their	Fr	actions		shapes on a	•	How to illustrate	
	inverse work.				single quadrant		and name parts	
•	How to use	•	How to name		grid from given		of a circle	
	addition and		equivalent		coordinates.		including radius,	
	subtraction		fractions for	•	How to read and		diameter, centre	
	formal methods		unit fractions.		plot co-		and	
	to solve multi-	•	How to name		ordinates in a 4		circumference.	
	step problems.		equivalent		quadrant grid.	•	How to recognise	
•	How to choose		fractions for	•	How to draw		that the	
	an appropriate		non-unit		shapes from		diameter is twice	
	method (written		fractions.		given coo-		the length of the	
	or mental) to	•	How to simplify		ordinates in a 4		radius.	
	solve addition		fractions to		quadrant grid.	•	How to interpret	
	and subtraction		their simplest	•	How to calculate		the data from pie	
	calculations.		form.		the length of a		charts including	

	How to convert	line by using the	those with
Factors and	improper	coordinates of	percentages.
Multiples	fractions to	its two	How to solve
 How to name 	mixed numbers.	endpoints.	problems using
factors of a	 How to convert 	How to	information from
given number.	mixed numbers	translate shapes	pie charts.
 How to find 	to improper	in all 4	How to construct
common factors	fractions.	quadrants.	their own pie
of 2 numbers.	How to count	How to describe	chart.
How to name	forwards and	translations	How to calculate
multiples of a	backwards in	using directional	the mean average
given number.	fractions.	language (units,	in a variety of
 How to find 	How to compare	left, right, up,	contexts.
common	and order	down)	
multiples of	fractions where	How to draw	
numbers.	the denominator	translated	
How to name	is the same.	shapes.	
some prime	How to compare	 How to reflect 	
numbers.	and order	shapes in all 4	
 How to give 	fractions where	quadrants-	
prime factors of	the	reflecting in	
a given number.	denominators	both the x and	
• How to square	are different.	the y axis.	
and cube	How to add and	How to describe	
numbers.	subtract	reflections	
How to use the	fractions within	using directional	
order of	1 where the	language (right,	
operations to	denominators	left, x axis	
	are the same.	etc.).	

complete	How to add and	
calculations.	subtract	
	fractions within	
	1 where the	
	denominators	
	are multiples of	
	the same	
	number.	
	How to add and	
	subtract	
	fractions where	
	the	
	denominators	
	are not	
	multiples of the	
	same number.	
	How to add and	
	subtract	
	fractions where	
	the answer is	
	larger than 1.	
	How to adding	
	and subtracting	
	mixed numbers.	
	How to solve	
	problems using	
	addition and	
	subtraction of	

fractions and
mixed numbers.
How to multiply
fractions by an
integer.
How to multiply
a mixed number
by an integer.
How to multiply
fractions by
fractions.
 How to divide
fractions by an
integer where
the numerator
is a multiple of
the integer
How to divide
fractions by an
integer where
the numerator
is not a multiple
of the integer
• How to use the
four operations
when calculating
with fractions
with fractions.

• How to calculate		
fractions of an		
amount.		

	Maths- Year 5											
	Advent 1		Advent 2		Lent 1	Lent 2			Pentecost 1		Pentecost 2	
	Children will		Children will		Children will	Cł	nildren will know:	Children will			Children will	
	know:		know:		know:			know:			know:	
Ple	ace value	M	ultiplication and	Multiplication and		Perimeter and Area		Properties of		Ne	egative Numbers	
•	How to	Di	vision	Div	vision	•	How to measure	Sł	ape	•	How to	
	recognise the	•	How to identify	•	How to multiply		the perimeter of	•	How to measure		interpret	
	place value of		multiples and		numbers up to 4		composite		angles in		negative	
	digits in		factors,		digits by a 1		rectilinear shapes		degrees		numbers in	
	numbers up to		including finding		digit number,		(without grids) in	•	How to measure		context and	
	10,000.		all factor pairs		using formal		centimetres and		acute angles		count forwards	
•	How to count		of a number, and		written methods		metres		with a		and backwards	
	forwards and		common factors		(long	•	To consider		protractor		with positive and	
	backwards in		of two numbers.		multiplication,		alternative	٠	How to measure		negative whole	
	steps of powers	•	How to use the		beginning to look		methods when		obtuse angles		numbers,	
	of 10 for any		vocabulary of		at short		dealing with		with a		including	
	given number up		prime numbers,		multiplication)		rectangles eg, 1 +		protractor		through zero.	
-	to 10,000.		prime factors	•	How to multiply		w + I + w or (I + w)	•	How to draw	•		
•	riow io		and composite		numbers up to 4		X C How to calculate		given angles	De	cimais	
	nlace value of		(non-prime)		digits by a 2	•	the perimeter of		decurately	•	How to round	
	diaits in		Humbers.		ugin number,		composite	•	now to estimate		decimais with	
	numbers up to	•	whether a		written methode		rectilinear shapes		acute obtuse		near act whole	
	10 000		number un to		(long		in centimetres		and reflex		number	
•	How to read and		100 is prime and		multiplication)		and metres		anales		How to round	
	write numbers in				mariplication	•	How to calculate		angres		decimals with	
	words and						the area of					

								-			
	numerals to		recall prime	•	How to divide		rectangles	•	What a right		2d.p to the
	10,000.		numbers to 19.		numbers up to 4		(including		angle is		nearest tenth (1
•	How to compare	•	How to		digits by a 1		squares)	•	That two right		d.p)
	numbers up to		recognise and		digit number,	•	How to use		angles are	•	How to solve
	10,000, including		use square		using the formal		standard units,		equivalent to a		problems
	use of <, >, =.		numbers and		written method		square		straight line		involving
•	How to order		cube numbers		of short division		centimetres (cm ²)	•	How to identify		numbers up to 3
	numbers up to		and recognise	•	How to		and square		and calculate		d.p
	10,000.		the notation for		interpret		metres (m ²)		missing angles		
			squared (²) and		remainders	•	How to calculate		on a straight	Co	nverting Units
•	How to read		cubed (³).		appropriately		the area of		line and half a	•	That the prefix
	Roman numerals	•	Solve problems		for the context.		compound shapes		turn		'kilo' in units of
	to 1000 (M) and		involving using	•	How to solve	•	How to split up a	•	That there are		length and mass
	recognise years		knowledge of		problems		compound shape		360° in a full		mean a thousand
	written in Roman		factors,		involving		to find the area		turn	•	How to convert
	numerals.		multiples,		multiplication	•	How the area	•	When to		from metres to
			squares and		and division.		remains the same		measure an		kilometres and
•	How to		cubes.	•	How to multiply		no matter how		angle and when		vice versa
-	recognise the	•	How to multiply		and divide		the compound		they should	•	How to convert
	nlace value of		whole numbers		numbers		shape is split up		calculate the	-	from orang to
	diaite in		and those		mentally	•	How to estimate		size of an anale		kilooname and
	numbers up to		involvino		drawing upon	-	the area of		from aiven facts		
			decimale by 10		known facte		irregular change		How to identify		
	1,000,000.		100 and 1 000				(counting sources	-	and calculate	•	How to convert
•	How to count		Low to divide	-			(counting squares		una calculate		trom
	torwards and	•	HOW TO alviae	Fre	actions		mernoaj		missing angles at		centimetres to
	backwards in		whole numbers	•	How to multiply				a point and one a		metres and vice
	steps of powers		and those		unit fractions by				whole turn		versa
	of 10 for any		involving		an integer			•	How to identify	•	How to convert
									and calculate		from

	aiven number un	decimals by 10	 How to multiply 	Statistics	missing angles	centimetres to
	+~ 1 000 000	100 and 1 000	- now to multiply		involving ather	millimetres and
	10 1,000,000.	100 and 1,000.	proper fractions	• How to interpret	involving other	minimerres ana
•	How to		by an integer	line graphs	multiples of 90	vice versa
	recognise the	Fractions	 How to multiply 	 How to draw line 	 The properties 	 How to convert
	place value of	• How to compare	a mixed number	graphs	of rectangles	from litres to
	digits in	fractions (less	by an integer	 How to use line 	 How to use 	millilitres and
	numbers up to	than and		graphs to solve	these properties	vice versa
	1,000,000.	greater than 1)	Decimals and	problems	to deduce	• What imperial
•	How to read and	whose	Percentages	(comparison, sum	related facts	units of measure
	write numbers in	denominators	 How to read and 	and difference)	and find missing	are (such as
	words and	are all multiples	write decimal	 How to read 	lengths and	inches, pounds
	numerals to	of the same	numbers (up to	tables	angles	and pints)
	1,000,000.	number	3 d.p)	 How to interpret 	 How to 	 How to
•	How to compare	 How to order 	How to	tables	distinguish	understand and
	numbers up to	fractions (less	understand the	 How to read two- 	between regular	use the
	1,000,000,	than and	value of each	way tables	and irregular	approximate
	including use of	greater than 1)	digit (up to 3	 How to interpret 	polygons	equivalences
	<, >, =.	whose	d.p)	two-way tables	• That regular	between metric
•	How to order	denominators	How to order	 How to read 	means all the	units and
	numbers up to	are all multiples	numbers with up	timetables	sides and angles	common imperial
	1,000,000.	of the same	to 3 d.p	 How to interpret 	in a shape are	units
•	Round numbers	number	How to compare	timetables	equal	How to convert
	to the nearest	• How to identify	numbers with up	•	 That irregular 	between units of
	10, 100, 1,000,	and name	to 3 d.p		polygons are	time including
	10,000 and	equivalent	 How to read and 		shapes like a	years, months,
	100,000.	fractions of a	write decimals		rectangle or	weeks, days,
•	Round any	given fraction	as fractions		isosceles	hours, minutes
	number up to	 How to write 	 How to read and 		triangle	and seconds
	1,000,000 to the	equivalent	write more			

	nearest 10, 100,		fractions of a		complex	•	How to identify	•	How to solve
	1,000, 10,000		given fraction		decimals (0.96,		3-D shapes,		problems
	and 100,000.	٠	How to		0.03 etc) and		including cubes		involving
•	Solve number		recognise mixed		numbers greater		and cuboids		converting
	problems and		numbers (a		than 1 (1.2, 4.01		from 2-D shapes		between units of
	practical		number		etc) as fractions	•	Language		time
	problems that		consisting of an	•	How to		associated with		
	involve all of the		integer and a		recognise and		properties of 3-		
	above.		proper fraction)		use thousandths		D shapes (faces,	Vo	lume
		•	How to write	•	The relationship		curved surfaces,	•	That volume is
Ac	dition and		mathematical		between tenths,		vertices, edges		the amount of
Su	ubtraction:		statements > 1		hundredths and		etc)		solid space
•	How to add		as a mixed		thousandths				something takes
	whole numbers		number	•	The link				up
	with more than	•	How to		between	Po	sition and	•	That volume is
	4 digits, using		recognise		thousandths and	Di	rection		different to
	column addition		improper		decimal and	•	That the origin		capacity as
	with carrying.		fractions (a		mixed number		of coordinates		capacity is
•	How to subtract		fraction where		equivalences		is (0,0)		related to the
	whole numbers		the numerator is	•	That per cent	•	That the first		amount a
	with more than		greater than		relates to		number		container can
	4 digits, using		the		number of parts		represents the		hold
	column		denominator)		per hundred		x coordinate	•	How to use their
	subtraction with	٠	How to convert	•	The per cent	•	That the second		understanding
	exchanging.		from improper		symbol (%)		number		of volume to
•	How to add		fractions to	•	That		represents the y		compare and
	numbers		mixed numbers		percentages,		coordinate		order different
	mentally with	•	How to convert		decimals and				solids that are
	increasingly		from mixed		fractions are				made of cubes

	large numbers		numbers to		different ways	•	How to	•	How to estimate
	(eg, 12,462 +		improper		of expressing		translate shapes		the volume and
	2300 = 14,762)		fractions		proportions		on a grid		capacity of
•	How to subtract	٠	How to add	•	How to write	•	To focus on one		different solids
	numbers		fractions with		percentages as a		vertex at a time		and objects
	mentally with		the same		fraction with a		when translating	•	That containers
	increasingly		denominator		denominator 100	•	How to		can be different
	large numbers	٠	How to add	•	How to write		translate		shapes but still
	(eg, 12,462 -		fractions with		percentages as a		coordinates		hold the same
	2300 = 10,162)		denominators		decimal	•	How to describe		capacity
•	How to use		that are	•	How to		translations of	•	That they need
	column addition		multiples of the		recognise simple		coordinates		to choose the
	to find missing		same number.		equivalent	٠	How to reflect		most suitable
	digits and	٠	How to subtract		fractions and		shapes on a grid		unit of measure
	numbers.		fractions with		represent them	•	How to reflect		for different
•	How to use		the same		as decimals		shapes with		objects, eg using
	column		denominator	•	How to		coordinates		m ³ for the
	subtraction to	٠	How to subtract		recognise simple	٠	What happens		volume of a room
	find missing		fractions with		equivalent		to points		
	digits and		that are		fractions and		(coordinates)		
	numbers.		multiples of the		represent them		when they are		
•	How to solve		same number		as percentages		reflected in		
	addition and	٠	How to add two	•	Percentage and		lines parallel to		
	subtraction		fractions where		decimal		the axes		
	multi-step		one or both are		equivalents of	٠	That reflection		
	problems in		mixed numbers		1/2 , 1 , 1/5, 2/5,		and translation		
	contexts.		or improper		3/5, 4/5		do not change		
•	How to decide		fractions	•	Percentage and		the shape		
	which operations				decimal				

 and methods to use and why. How to use rounding to check answers to calculations and determine levels of accuracy. 	 How to subtract proper fractions from mixed numbers How to subtract two fractions where one or both are mixed numbers or improper fractions 	equivalents of fractions with a denominator of a multiple of 10 or 25			
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		Maths-	Year 4		
Advent 1 Children will know: Childr	Advent 2 ren will know: (Lent 1 Children will know:	Lent 2 Children will know:	Pentecost 1 Children will know:	Pentecost 2 Children will know:
Place valueMeasure• How to count in multiples of 6, 7, 9, 25 and 1000.Area• How to find 1000 more or less than a given number.• Will • How • How to count backwards through zero to include negative numbers.• Will • How • How to count backwards through zero to include negative numbers.• How to recognise the place value of each digit in a 	surement: hat area is.? bw to find the ea of ctilinear apes by unting squares. bw to compare ea of different apes. blication and bw to recall ultiplication and vision facts for ultiplication bles up 6 x 12. bw to use place lue known and	 Multiplication and Division How to recall multiplication and division facts for multiplication tables from 7 to 12 x 12. How to multiply a two-digit and three-digit number by a one- digit number using formal written method. How to divide a two digit and three-digit number by a one- digit number using a formal 	 Fractions How to recognise the differences between unit and non-unit fractions. How to count in tenths. How to recognise that tenths arise when dividing an object by 10. How to recognise and show, using diagrams, families of common equivalent fractions. How to count up and down in hundredths. 	 Decimals How to round decimals with one decimal place to the nearest whole number. How to compare numbers with the same number of decimal places up to two decimal places. How to order decimals. How to solve simple problems involving lengths. 	 Geometry: Properties of shape. How to compare and classify geometric shapes based on their properties and sizes. How to identify acute and obtuse angles. How to compare and order angles up to two right angles by size. How to identify lines of symmetry in 2-D shapes presented in different orientations. How to complete a

			T1
 How to find 1000 more or less than a given number How to identify, represent and 	multiply and divide mentally, including, multiplying by 0How to solve problems involving multiplying and adding including	 How to recognise that hundredths arise when dividing an object by one hundred Money How to add and subtract amounts 	figure with respect to a specific line of symmetry.
 estimate numbers using different representations. How to round any number to the nearest 10, 100 or 	1.using theHow to multiply together three numbers.distributive law, integer scaling problems andHow to recognise and use factorharder correspondence	 How to add and subtract fraction with the same denominator. How to subtract fractions from How to solve simple problems involving all four operations. 	Statistics How to interpret and present data using appropriate graphical methods, including
 1000. How to solve number and practical problems that involve all of the above and with increasingly large 	 pairs and problems such as commutativity in mental calculations. How to multiply and divide by 10 and 100 including desimate 	 whole ones. How to recognise fractions bigger than 1. How to find fractions of amounts. Time How to convert between units of time. How to read time 	 bar charts and time graphs. How to solve comparison, sum and difference problems using information
 positive numbers. How to read Roman numerals to 100 (I to C). 	 Adecimals. Perimeter How to convert lengths from m- cm. mm-cm. How to add and subtract lengths 	 Fractions and Decimals How to recognise and write decimal on an analogue and digital clock. How to write and convert time between analogue and digital 12- 	presented in bar charts, pictograms, tables and other graphs.
 How to add numbers with up to 4 digits using the formal written methods of 	 How to measure lengths and calculate the perimeter of a rectilinear 	equivalents of any number of tenths or hundredths. equivalents of and 24-hour clocks. • How to solve problems involving	Direction Geometry: Position and Direction

columnar addition	shapes in cm, mm	How to recognise	converting from	 How to describe
where appropriate.	and m.	and write decimal	hours to minutes;	positions on a
How to solve	•	equivalents to $\frac{1}{4}$,	minutes to	2-D grid as
addition problems		$\frac{1}{2}, \frac{3}{4}.$	seconds; years to	coordinates in the
in contexts.		 How to identify 	months; weeks to	first quadrant.
		the	days.	 How to describe
Subtraction		value of the		movements
How to subtract		digits in the		between positions
numbers with up		answer as ones,		as translations of
to 4 digits using		tenths and		a given unit to the
the formal written		hundredths.		left/right and
methods of		• How to divide a 1		up/down.
columnar		or 2 digit number		 How to plot
subtraction where		by 10 or 100.		specified points
appropriate.				and draw sides to
 How to solve 				complete a given
subtraction				polygon.
problems in				
contexts				
• How to colve two				
stan problems in				
step problems in				
• How to decide				
which operations				
and methods to				
use and why.				

•	How to estimate			
	and use inverse			
	operations to			
	check answers.			

		Maths-	Year 3		
Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	Pentecost 2
Children will know:	Children will know:	Children will know:	Children will know:	Children will know:	Children will know:
Place Value	Subtraction	Aultiplication	Enactions	Enactions	Shana
Flace value	Subtraction	Multiplication	Fractions	Fractions	Shape
 How to count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number How to recognise the place value of each digit in a three-digit 	 How to subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds 	• How to write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for two-digit numbers times	 How to understand the denominators of unit and non-unit fractions. How to count up and down in tenths; recognise that tenths arise from dividing an object into 10 	 How to add fractions including adding more than 2 fractions. How to subtract fractions. How to subtract from whole amounts. How to find 	 how to draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them how to recognise
 number (hundreds, tens, ones) How to compare and order numbers up to 1000 How to identify, represent and estimate numbers using 	 How to subtract numbers with up to three digits, using formal written methods of columnar subtraction How to estimate the answer to a calculation and use inverse 	 one-digit numbers, using mental and progressing to formal written methods How to solve problems, including missing number problems 	 equal parts and in dividing one- digit numbers or quantities by 10 How to recognise, find and write fractions of a discrete set of objects: unit fractions and 	 How to find fractions of amounts or objects. How to calculate fractions of a quantity. Money How to add and aubtract 	 angles as a property of shape or a description of a turn how to identify right angles, recognise that two right angles make a half-turn, three make

different representations • How to read and write numbers up to 1000 in numerals and in words • How to solve number problems	operations to check answers • How to solve problems, including missing number problems, using number facts, place value, and	involving multiplication, including positive integer scaling problems and correspondence problems in which n objects are connected to	non-unit fractions with small denominators • How to recognise and use fractions as numbers: unit fractions and non-unit	amounts of money to give change, using both £ and p in practical contexts Time	three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle how to identify
and practical problems involving these ideas. Addition	Multiplication/Divisi on	 m objects Division How to write and calculate mathematical 	 fractions with small denominators. How to find equivalent fractions in different 	 How to tell and write the time from an analogue clock, including using Roman numerals from T 	horizontal and vertical lines and pairs of perpendicular and parallel lines.
 How to add numbers mentally, including. 	use multiplication and division facts for the 3,	statements for division using mental and	 representations. How to order and compare fractions 	to XII, and 12- hour and 24-hour clocks.	Statistics
three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds • How to add numbers with up	4 and 8 multiplication tables	 progressing to formal written methods How to solve problems, including missing number problems, involving division, including positive 	 Mass and Capacity How to measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml) 	 How to estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes 	 How to interpret and present data using bar charts, pictograms and tables How to solve one-step and two-step questions [for example, 'How

to three digits,	integer scaling	and hours; use	many more?' and
using formal	problems and	vocabulary such	'How many
written methods	correspondence	as o'clock,	fewer?']using
of columnar	problems in	a.m./p.m.,	information
addition	which n objects	morning	presented in
 How to estimate 	are connected to	afternoon noon	scaled bar
the answer to a	m objects.	and midnight	charts and
calculation and		• The number of	pictograms and
use inverse	Length and	• The humber of	tables
operations to	Perimeter	minute and the	
check answers		number of days	
 How to solve 	 How to measure, 	in each month	
problems,	compare, add and	vear and leap	
including missing	subtract: lengths	vear	
number	(m/cm/mm)	 How to compare 	
problems, using	How to measure	durations of	
number facts,	the perimeter of	events [for	
place value, and	simple 2-D	example to	
more complex	shapes	calculate the	
addition		time taken by	
		particular events	
		, or tasks].	
		-	

		Year 2-	- Maths		
By the end of the Advent Term 1 children will:	By the end of the Advent Term 2 children will:	By the end of the Lent Term 1 children will:	By the end of the Lent Term 2 children will:	By the end of the Pentecost Term 1 children will know:	By the end of the Pentecost Term 2 children will:
 Place value Be able to count forwards and backwards within 20. Recognise tens and ones within 20. Be able to count forwards and backwards within 50. Recognise tens and ones within 50. Be able to compare numbers within 50 using knowledge of tens and ones. Count objects to 100 and read and write numbers in numerals and 	 Subtraction Recognise fact families for subtraction bonds to 20. Be able to subtract 1 and 10 less to numbers up to 100. Be able to compare subtraction number sentences using symbols (<,> or =). Be able to subtract a 1-digit number from a 2- digit number crossing ten by exchanging. Be able to subtract a 2-digit number from a 2- 	 Division Be able to divide any 1 or 2-digit number within 100 by two using concrete, pictorial and abstract methods. Be able to divide any 1 or 2-digit number within 100 by five using concrete, pictorial and abstract methods. Be able to divide any 1 or 2-digit number within 100 by ten using concrete, pictorial and abstract methods. Be able to divide any 1 or 2-digit number within 100 by ten using concrete, pictorial and abstract methods. Be able to answer division calculation 	 Fractions Name and write ¹/₂, ¹/₄, ¹/₃, ²/₄ and ³/₄ fractions recognising the numerator and denominator. Recognise ¹/₂, ¹/₄, ¹/₃, ²/₄ and ³/₄ of a length, shape or set of objects. Be able to find ¹/₂, ¹/₄, ¹/₃, ²/₄ and ³/₄ of a length, shape or set of objects. Be able to find ¹/₂, ¹/₄, ¹/₃, ²/₄ and ³/₄ of a length, shape or set of objects. Be able to find ¹/₂, ¹/₄, ¹/₃, ²/₄ and ³/₄ of a length, shape or set of objects. Be able to find ¹/₂, ¹/₄, ¹/₃, ²/₄ and ³/₄ of an amount using pictorial and concrete resources to make equal groups. 	 Length and Height Recognise length and height. Be able to measure lengths using a ruler using the correct unit of measure (cm and m). Be able to compare lengths (cm and m) using more than and less than symbols (<,> and =). Be able to order lengths (cm and m). Be able to answer length and height calculations using the four operations (add, subtract, multiply 	 Statistics Be able to make tally charts by interpreting data using the correct symbols. Be able to draw pictograms using a key representing 1, 2, 5 and 10. Be able to interpret pictograms with keys representing 1, 2, 5 and 10. Be able to make block diagrams by interpreting data. Be able to interpret block diagrams and find the difference between pieces of data.

•	Be able to		digit number not		groups by sharing	•	Recognise $\frac{1}{2}$ and $\frac{2}{4}$		and divide) in a	Geo	ometry: Position
	represent		crossing ten.		using concrete		as equivalent		practical context.	and	Direction
	numbers to 100	•	Be able to		(cubes and rods),		fractions.			•	Recognise and
	using tens and		subtract a 2-digit		pictorial and			Me	asure: Mass,		describe the
	ones.		number from a 2-		abstract	Tir	ne	Cap	pacity and		position, direction
•	ones. Be able to use a part-whole model to represent tens and ones. Be able to write addition number sentences showing the partition of tens and ones. Be able to use a place value chart to represent tens and ones using different pictorial representation	•	number from a 2- digit number crossing ten by subtracting ones and tens. Be able to find and make number bonds up to 100 using tens and ones. Be able to use the inverse to check calculations for addition and subtraction calculations.	•	abstract resources. Be able to answer division calculations by making equal groups by grouping using concrete (cubes and rods), pictorial and abstract resources. Be able to use the inverse to check calculations for multiplication and	Tir	ne Be able to tell the time to the hour, half hour and quarter hour using the correct vocabulary (o'clock, half past, quarter past and quarter to). Be able to tell the time to five minutes using the correct vocabulary (past and to)	Caț Ter	bacity and mperature Be able to choose the appropriate standard of unit to estimate and measure mass (kg/g) to the nearest unit using scales. Be able to compare and order mass and record results using the more than and less than (< > and =)	•	position, direction and movement of objects using mathematical vocabulary. Be able to distinguish rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).
•	such as cubes and rods and counters. Be able to compare objects using knowledge of more or less using symbols (<,> and =). Compare numbers using knowledge of more or less tens or ones using symbols (<,> and =).	•	Be able to use a bar model to find missing numbers using knowledge of whole numbers and parts. Be able to find missing numbers in addition and subtraction sentences using	•	division calculations. Be able to find missing numbers in multiplication and division sentences using inverse operations. Recognise fact families for arrays including multiplication,	•	Be able to draw the hands on a clock face to show time. Be able to compare and sequence intervals of time (am and pm, hour, minutes, days, week, month and year).	•	using the appropriate unit (kg/g). Be able to choose the appropriate standard of unit to estimate and measure capacity (litres/ml) to the nearest unit using scales and measuring vessels.		

 Be able to order objects and numbers using knowledge of more or less tens and ones. Be able to count in 2s, 5s and 10s forwards and backwards from any number. Be able to count Be able to make equal groups using pictorial and abstract Be able to make equal groups using pictorial and abstract Be able to count Be able to count Be able to make equal groups using pictorial and abstract Be able to count Be able to make equal groups using pictorial and abstract Be able to count Be a
objects and numbers using knowledge of more or less tens and ones.operations.repeated addition sentences.of minutes in an hour and the number of hourscompare and order volume and record number of hoursMultiplication or less tens and ones.Multiplication groups using pictorial and abstractMoneyin a day.results using the more than and less than (<,> and =) using the• Be able to count in 2s, 5s and 10s forwards and any number.abstract equal groups using pictorial and any number.Meney• Recognise coins and notes using the correct unit of measure (p or £).• Recognise 2D shapes and name them using appropriate shapes and name the appropriate standard of unit to estimate and• Be able to choose the appropriate standard of unit to estimate and
numbers using knowledge of more or less tens and ones.Multiplicationsentences.hour and the number of hours in a day.volume and record results using the more than and less than (<,> and =) using the• Be able to count in 2s, 5s and 10s forwards and any number.• Be able to make equal groups using pictorial and abstract• Recognise coins and notes using the correct unit of measure (p or £).• Recognise 2D shapes and name them using appropriate shapes and name the appropriate standard of unit to estimate and• Be able to count• Be able to make equal groups using pictorial and any number.€).• Be able to count money in pence adding and• Recognise the• Be cognise the
knowledge of more or less tens and ones.Multiplicationnumber of hours in a day.results using the more than and less than (<,> and =) using the• Be able to count in 2s, 5s and 10s forwards and any number.• Be able to make equal groups using pictorial and abstract• Recognise coins and notes using the correct unit of measure (p or £).• Recognise 2D shapes and name them using appropriate• Recognise 2D shapes and name the appropriate spelling.• Recognise the• Recognise 2D shapes and name the appropriate standard of unit to estimate and
or less tens and ones.• Recognise equal groups using pictorial and abstractMoneyin a day.more than and less than (<,> and =) using the• Be able to count in 2s, 5s and 10s forwards and backwards from any number.• Recognise coins and notes using the correct unit of measure (p or £).• Recognise 2D shapes and name them using appropriate shapes and name them using appropriate spelling.• Money• Be able to count• Be able to make equal groups using pictorial and any number.€).• Recognise 2D shapes and name them using appropriate spelling.• Be able to choose the appropriate standard of unit to estimate and
ones.groups using pictorial and abstractRecognise coins and notes using the correct unit of measure (p or £).Shapethan (<,> and =) using the appropriate unit (litres/ml).• Be able to count in 2s, 5s and 10s forwards and backwards from any number.• Be able to make equal groups using pictorial and abstract• Recognise coins and notes using the correct unit of measure (p or £).• Recognise 2D shapes and name them using appropriate spelling.• Recognise 2D shapes and name them using appropriate spelling.• Be able to choose the appropriate standard of unit to estimate and
 Be able to count in 2s, 5s and 10s forwards and backwards from any number. Be able to count Be able to count Be able to count Be able to count Be able to make equal groups using pictorial and and notes using the correct unit of measure (p or any number. Be able to make equal groups using any number. Be able to count Be able to count
 Be able to count in 2s, 5s and 10s forwards and backwards from any number. Be able to count Be
2s, 5s and 10s forwards and backwards from any number.resources.of measure (p or £).shapes and name them using appropriate spelling.(litres/ml).equal groups using pictorial and abstract
forwards and backwards from any number.Be able to make equal groups using pictorial and abstract£).them using appropriate spelling.• Be able to choose the appropriate spelling.• Be able to count• Be able to make equal groups using pictorial and adding and£).• Be able to count money in pence adding and• Be able to choose the appropriate spelling.
backwards from any number.equal groups using pictorial and abstractBe able to count money in pence adding andappropriate spelling.the appropriate standard of unit to estimate and
any number.pictorial andmoney in pencespelling.standard of unit• Be able to countabstractadding and• Recognise theto estimate and
Be able to count abstract adding and Recognise the to estimate and
up to 100 resources counting on in 1s properties of 2D measure
forwards and • Be able to add 2s 5s and 10s shapes including temperature (°C)
backwards. equal arouns to Be able to count number of sides to the nearest
make repeated money in pounds in and vertices unit using
Addition addition notes and coins by • Be able to draw thermometers.
Decompose fact Sentences adding or counting lines of symmetry
families for Be able to write on Be able to
addition bonds to and answer • Be able to count compare and around
20 repeated addition money with 2D shapes and
Personise related calculations as a combination of everyday objects
facts for tens multiplication notes and coins by based on their
bonds to 100 using the x adding or counting properties
Be able to symbol on Becognise 3D
compare addition • Be able to write • Be able to select shapes and name
number sentences multiplication money to make an them using
using symbols (<>> sentences from amount in pence appropriate
or =) pictures such as and pounds spelling
Be able to add 1 arrays using the x Be able to make Recognise the
and 10 more to symbol the same amount properties of 3D

 numbers up to 100. Be able to add a 2-digit and 1-digit number crossing ten by exchanging. Be able to add two 2-digit numbers not crossing ten by adding ones 	•	Be able to answer multiplication calculations by making equal groups by sharing using concrete (cubes and rods), pictorial and abstract resources	•	of money using different combinations of coins or notes. Be able to compare money using the more than, less than or equal to symbols (< > or =)	•	shapes including number of faces, edges and vertices. Recognise 2D shapes on the surface of 3D shapes (e.g. a circle on a cylinder)	
 and adding tens. Be able to add two 2-digit numbers crossing ten by adding ones and then adding tens. Be able to add three 1-digit numbers. 	•	Be able to answer multiplication calculations by making equal groups by grouping using concrete (cubes and rods), pictorial and abstract resources. Recognise and use arrays writing associated calculations. Recognise and count in the 2- times table from any number within 100. Recognise and count in the 5-	•	Be able to find the total for an amount of coins using the four operations (addition, subtraction, multiplication and division). Be able to find the difference of an amount of money using subtraction in a practical context. Be able to find change for an amount of money using subtraction in a practical context.		Be able to compare and sort 3D shapes and everyday objects based on their properties.	

any number within 100. • Recognise and count in the 10- times table from any number within 100.	 Be able to answer two-step money problems using the four operations (addition, subtraction, multiplication and division). 		
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Maths- Year 1							
Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	Pentecost 2		
Children will know how	Children will know how	Children will know how	Children will know how	Children will know how	Children will know how		
to:	to:	to:	to:	to:	to:		
Place value	Subtraction	Place Value	Place Value	Multiplication and	Geometry: Position		
 Sort, count and represent objects up to 10. Count, read and write numbers forwards and backwards from any number 0 to 10 (numerals and words). Count one more or one less from any given number 0 to 10. Compare groups (using language such as equal, more or less than) Recognise <, > and = symbols to compare numbers. 	 Find how many left by taking away within 10. Recognise the subtraction symbol Find a missing number (part) within subtraction up to 10. Compare subtraction and addition number sentences up to 10 using symbols (<,> or =). Shape Recognise and name 2D shapes. Sort 2D shapes. 	 Count, read and write numbers forwards and backwards to 20 (in words and numerals). Represent numbers to 20 using tens and ones. Compare groups of objects and numbers to 20. Order groups of objects and numbers to 20. Order groups of objects and numbers to 20. Count one more or one less from any given number 0 to 20. Compare groups (using language such 	 Count, read and write numbers forwards and backwards to 50. Represent numbers to 50 using tens and ones. Compare groups of objects and numbers to 50. Order groups of objects and numbers to 50. Count one more or one less from any given number 0 to 50. Compare groups (using language such as equal, more or less than) to 50. 	 Division Count in 2s, 5s and 10s Recognise equal groups using pictorial and abstract resources. Make equal groups using pictorial and abstract resources. Add equal groups to make repeated addition sentences. Make arrays by making equal groups and building them up in columns or rows. Explore doubling numbers up to 20. 	 and Direction Describe turns such as 'full', 'half', 'quarter' and 'three-quarter' made by shapes/objects. Describe direction of objects and shapes from different starting points such as 'left', 'right', 'forwards' and 'backwards'. Know how to describe positions of objects and shapes from different starting points such as 'top', 'in between', 'bottom', 'above' and 		

•	Order groups of	•	Recognise and name		as equal, more or	•	Recognise <, > and =	•	Make groups of an		
	objects and		3D shapes.		less than) to 20.		symbols to compare		equal amount from a	Plo	ace Value
	numbers to 10.	•	Sort 3D shapes.	•	Recognise <, > and =		numbers to 50.		given total.	•	Count, read and
•	Use ordinal	٠	Make patterns with		symbols to compare			٠	Explore sharing		write numbers
	numbers (1 st , 2 nd ,		3D and 2D shapes.		numbers.	•	Count in 5s		equally as a model		forwards and
	3 rd)								of division using		backwards to 100.
				٠	Count in 2s	Le	ngth and Height		concrete and	•	Represent numbers
Ac	ldition					•	Understand the		pictorial		to 100 using tens
•	Understand that a			Ad	ldition		language of length		representations		and ones.
	number can be split			•	Add by counting on,		such as long, longer,			•	Compare groups of
	into parts (part-				within 20.		short, shorter, tall	Fr	actions		objects and
	whole model).			•	Add by making 10.		and taller.	•	Explore finding a		numbers to 100.
•	Recognise the			•	Recognise the fact	•	Understand that		half using shapes or	•	Order groups of
	addition symbol +.				families for		height is a type of		objects.		objects and
•	Recognise the fact				addition bonds to		length	•	Know how to find		numbers to 100.
	families for				20.	•	Compare lengths		half of a small	•	Compare groups
	addition bonds to			•	Know how to find a		and heights using		quantity of		(using language such
	10.				missing number		non-standard units,		concrete or		as equal, more or
•	Know how to find a				(part) within		such as cubes,		pictorial		less than) to 100.
	missing number				addition.		hands and straws to		representation.	•	Recognise <, > and =
	(part) within			•	Compare addition		measure length and	•	Explore finding a		symbols to compare
	addition.				number sentences		height		quarter using		numbers to 100.
•	Compare addition				up to 20 using	•	Begin to measure		shapes or objects.	•	Count one more or
	number sentences				symbols (<,> or =).		length and height	•	Find a quarter of a		one less from any
	up to 10 using						with a ruler (in cm).		small quantity of		given number 0 to
	symbols (<,> or =).			Su	btraction				concrete or		100.
				•	Find how many left	W	eight and Mass		pictorial		
					by taking away	•	Describe objects		representation.	Ma	oney
					within 20.		using vocabulary				

 Know how to find a missing number (part) within subtraction up to 20. Compare subtraction and addition number sentences up to 20 using symbols (<,> or =). 	 such as heavy, light, heavier than, lighter than Use the scales to compare weight and mass of objects Measure the mass of an object using non-standard units such as cubes and bricks Compare weight and mass of objects using language such as 'heavier' 	 Recognise and know the value of different coins. Understand the equivalent values of coins. Recognise and know the value of different notes. Understand the equivalent values of notes. Know how to count in coins. Know how to
	as 'heavier', 'lighter' and 'equal to'. Capacity and Volume • Compare the volume in a container by describing whether it is 'full', 'empty' or 'nearly empty'. • Begin to measure capacity of different containers using non-standard units	 Know how to compare amounts of money. Time Describe and sort events in order of time such as 'before' and 'after' or 'morning', 'afternoon' and 'evening'. Name the 7 days in a week.

	of measure such as cups full or spoonsful. • Compare the capacity in a container by using non-standard units of measure.	 Talk about events using 'today', 'yesterday' and 'tomorrow'. Name the months of the year. Tell the time to the hour using an analogue clock. Tell the time to the half hour using an analogue clock. Tell the time to the half hour using an analogue clock. Tell the difference between seconds, minutes and hours. Compare amounts of time such as 'faster', 'slower', 'earlier' and 'later'.
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Mathematics Intent - Mathematics involves developing good number sense to solve problems in practical situations and everyday life. Practising visualisation to support understanding and problem solving. The opportunity to explore and experience shapes, space and measures in everyday context. The aim for each learner is to become a confident mathematician. Number Reception Advent Lent Pentecost know some numerals of personal • To know the composition of numbers to 10. To know the composition of numbers to 20. To significance - e.g. age, house number. To know number bonds for numbers 0-10 by To know the composition of numbers 1, 2 and • To know how to subitise to 5. automatic recall. 3 To know and begin to use the vocabulary To know addition facts up to 5 using all involved in adding and subtracting including To know how to subitise to 3. combinations. Then 6, 7, 8, 9, 10. counting on and back. • To know how to approach addition and find the total number of items in two groups by counting all of them and starting to use 'counting on'. • To know addition facts up to 5 using all combinations. Then 6, 7, 8, 9, 10.

ELG: Number

- To know number to 10 and have a deep understanding, including the composition of each number.
- To know how to subitise (recognise quantities without counting) up to 5.
- To know number bonds up to 5 by automatic recall (without reference to rhymes, counting or other aids), including subtraction facts and some number bonds to 10, including double facts.

	Mathematics								
	Numerical Patterns								
			Reception						
	Autumn		Lent		Summer				
•	To know how to estimate how many objects and check by counting all of them. To know how to count up to three objects by saying one number name for each item. To know to link the number symbol (numeral) with its cardinal number value. To know all manipulations of the numbers to 3. To know how to select the correct numeral to represent 1 to 3. To know how to find one more or one less	•	To know all manipulations of the numbers to 10. To know how to count objects to 10. To know how to count out up to six objects from a larger group. To know how to select the correct numeral to represent 1 to 10 objects. To know how to combine two groups of objects and give a total. To know how to find one more or one less	• • •	To know how to begin to use 'teens' to count beyond 10. To know how to count beyond 20 recognising number patterns. To know how to count objects beyond 10. To know how some doubling facts to 10. To know patterns in numbers to 10 for evens and odd.				
•	from a group of up to 3 objects, then ten objects. To know 'one more than/one less than' and the relationship between consecutive numbers.	•	from a group of up to 10 objects.						
•	To know how to compare numbers. To know how to use the language of 'more' and 'fewer' to compare two sets of objects.								

ELG: Number Patterns

- To know how to verbally count beyond 20, recognising the pattern of the counting system.
- To know how to compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
- To know patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

	Mathematics						
	Shape, Space and Measure						
			Reception				
	Autumn		Lent		Pentecost		
•	To know how to use comparative language like taller, shorter, the same.	•	To know how to compare length, weight and capacity. To know how to experiment with length,	•	To know how to select, rotate and manipulate shapes in order to develop spatial reasoning skills.		
•	To know how to start to identify shapes in the environment. To know how to start to find appropriate		height, capacity and use my findings to order and group items.	•	To know similarities, differences, patterns and changes.		
•	shapes for certain tasks. To know how to start to make more meaningful pictures, patterns and arrangements with shapes. To know how to compare and decompose	•	To know how to talk about the routine of the day and use language like before, after. To know how to recall routines and start to relate them to the time on the clock	•	Continue, copy and create repeating patterns		
,	shapes so that children recognise a shape can have other shapes within it, just as numbers can.	•	To know how to recall names for 2D and 3D shapes and to be able to use some of the terms to describe their properties.				

Mathematics

Mathematics involves developing good number sense to solve problems in practical situations and everyday life. Practising visualisation to support understanding and problem solving. The opportunity to explore and experience shapes, space and measures in everyday context. The aim for each learner is to become a confident mathematician.

Number

ELG: Have a deep understanding of number to 10, including the compositions of each numbers, subitise up to 5, Automatically recall number bonds up to 5 and some number bonds to 10 including double facts

3 & 4 year olds							
Advent	Lent	Pentecost					
 To know how to mark make and ascribe some concept of number to the marks (attempts at digits from the environment, making dots, lines etc). To know and experiment with their own symbols and marks as well as numerals. To know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle') To know how to identify numerals in the environment. To know how to sort objects using one simple criteria. 	 To know and show understanding of conservation. To know how to subitise showing a fast recognition of up to 3 objects, without having to count them individually ('subitising'). To know how to link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. To know to bring one or two objects when an adult requests. To know and show an understanding of simple comparisons like 'more'. To know when two small groups have the same number of objects. To know how to compare quantities using language: 'more than', 'fewer than' 	 To know, talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc. To know how to begin to describe a sequence of events, real or fictional, using words such as 'first', 'then' To know how to extend and create ABAB patterns -stick, leaf, stick, leaf. To know how to notice and correct an error in a repeating pattern. To know how to solve real world mathematical problems with numbers up to 5. 					

Numerical Patterns ELG: Verbally count beyond 20, recognising the patterns of the counting system, compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the dame as the other quantity, explore and represent patterns within numbers up to 10, including evens and odds , double facts and how quantities can be distribute equally.					
3 & 4 year olds					
Advent	Lent	Pentecost			
 To know how to recite some number names in sequence (not necessarily understand at this stage). To show finger numbers up to 5. 	• To know and say one number for each item in order: 1, 2, 3, 4, 5	 To know and recite numbers past 5. To know how to solve real world mathematical problems with numbers up to 5. 			

Shape, Space and Measure							
3 & 4 year olds							
Advent	Lent	Pentecost					
 To know how to start to fit shapes into board puzzles or shape sorters. To know how to begin to build using simple blocks. To know how to fill and empty a container. To know how to use small world play to experiment with size, shape, differences and similarities. To know how to use comparative language like 'taller', 'shorter', 'the same'. 	 To know and show some understanding of 'now' and 'next'. To know how to ask questions about the routine and what is happening next. To know and talk about the routine of the day and use language like 'before' and 'after'. To know and understand position through words alone - for example, "The bag is under the table," -with no pointing. To know and describe a familiar route. To know and discuss routes and locations, using words like 'in front of' and 'behind'. 	 To know how to start to identify shapes in the environment. To know to see some shapes in pictures and can start to make pictures using shapes. To know how to talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. To know how to start to find appropriate shapes for certain tasks. To know and select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc. To know how to combine shapes to make new ones - an arch, a bigger triangle etc To know how to start to make more meaningful pictures, patterns and arrangements with shapes. To know and make comparisons between objects relating to size, length, weight and capacity. 					