Mathematics Progression of Knowledge and Skills
St Francis RC Primary School

Mathematics						
	Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Number and place value	backwards digit even exchange fewer first…second… forwards half-way between least most number line number square number track numbers to 100 (and beyond) odd ones repeating pattern roughly 'teens' number tens units	> and < consecutive continue exact exactly hundreds nearest numeral one- digit number partition place, place value predict represents round rule sequence sequence stands for thousand three-digit number twenty-first, twenty-second…. two-digit number value	approximate approximately estimate near double one hundred less one hundred more place holder relationship round down round up zero to thousand+	above zero below zero classify consecutive hundred thousand integer minus negative integer negative number next numeral one thousand less one thousand more positive integer positive number property Roman numerals to 100 (I to C) round to the nearest 10 round to the nearest 100 round to the nearest 1000 sort ten thousand thousands	≈ is approximately equal to approximation ascending order composite number cube cubed number descending order greater than or equal to ≥ less than or equal to ≤ million one squared, two squared etc prime number Roman numerals to 1000 (M) round to the nearest 10000 round to the nearest 100000 square/d number term-to-term rule to the power of…	factorise numbers to ten million+ recurring

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Addition and subtraction	- operation + plus = put add together difference sign between subtract equal to take away how much total less is…? less than minus more than number bond number fact no. sentence	addition calculate calculation correct difference inverse one hundred less one hundred more subtraction sum symbol tens boundary	column(ar) addition column(ar) subtraction equation exchange hundreds boundary inverse operation	decrease increase	tenths boundary units boundary	brackets common multiple long division long multiplication order of operations - BODMAS quotient recurring decimal
Multiplication and division	array count on (2s, 5s, 10s) equal to group grouping multiple share sharing	lots of column groups of share x times equally multiply group in multiplied pairs by equal multiplicat groups of ion ÷ divide multiple of divided by product divided into twice division as big as inverse as long as as wide as repeated addition row	equation inverse operation remainder	divisible by factor factor pair	common factor divisibility divisor factorise prime factor	

Fractions					
fraction half halve quarter whole	equal parts four quarters fraction one half one quarter one third one whole part three quarters two halves two quarters	denominator numerator one tenth tenths three thirds two thirds	decimal decimal fraction decimal place decimal point eighth fifth for every hundredth in every proportion simplify sixth twentieth	cancel common fraction improper fraction mixed fraction mixed number ninth per cent % percentage proper fraction reduced to simple fraction thousandth twelfth vulgar fraction	common denominator rational number thousandth

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Mathematics						
	Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Measurement	capacity	about	approximately	area	gallon	centilitre (cl)
	container	capacity	distance apart	breadth	imperial unit	cubic kilometre km³
	fast	Centigrade °C	distance between	convert	inch	cubic metre m³
	faster	centimetre (cm)	distance from	measurement	pint	cubic millimetre mm³
	fastest	contains	distance to	measuring cylinder	pound (lb)	feet
	height	further	kilometre (km)	metric unit	square millimetre (mm²)	foot
	length	furthest	mile	pint	volume in cm³	miles per hour
	line	gram (g)	millimetre (mm)	square centimetre (cm²)		ounce (oz)
	mass	half-kilogram	perimeter	square metre (m²)	arrive	tonne
	metre	half-litre		standard unit	depart	yard
	metre stick	kilogram (kg)	amount			
	roughly	litre (l)	least expensive	date of birth	currency	loss
	ruler	m to represent metre	less expensive	millennium	discount	profit
	volume	mass	more expensive			
	weighing scale	measuring scale	most expensive			
	weight	millilitre (ml)	value			
	width	tape measure	worth			
		temperature				
	always	thermometer	Roman numerals I to XII			
	autumn	volume				
	half past	weight	12-hour clock			
	how long ago…?		24-hour clock			
	how long will it be to…?	analogue clock	am			
	how long will it take to…?	digital clock	calendar			
	how often…?	fortnight	century			
	midnight	January, February…December	date			
	month	minute	earliest			
	never	quarter past	latest			
	once	quarter to	leap year			
	sometimes	second	noon			
	spring		pm			
	summer	£ and p				
	twice	bought				
	usually	change				
	weekend	note (and the names of notes)				
	winter	sold				
	year					
	names of coins					

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Mathematics

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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	month	February…December	earliest			
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	twice	£ and p				
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Mathematics						
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Properties of shapes	cuboid cylinder point pointed set sort	2D vertices 3D circular edge hexagon horizontal kite line of symmetry mirror line oblong octagon pentagon polygon prism property quadrilateral rectangular reflection surface triangular vertex vertical	acute angle angle greater angle than… hemisphere hexagonal irregular non-symmetrical obtuse angle octagonal parallel pentagonal perpendicular polyhedron regular right angle right-angled triangle semi-circle smaller angle than…	base closed concave construct convex cylindrical equilateral triangle heptagon isosceles triangle line symmetry open parallelogram polygon polyhedron reflect rhombus scalene triangle sketch spherical square-based tetrahedron trapezium	angle(s) at a point angle(s) on a straight line axis of symmetry congruent degrees diagonal octahedron reflective symmetry reflex angle	arc circumference concentric cross-section diameter dodecahedron geometric icosahedron intersecting intersection kite net plane radius tangram vertically opposite angles

Position and direction	anti-clockwise centre clockwise direction half turn journey position quarter turn three-quarter turn turn underneath whole turn	compass point east higher lower map north NSEW plan route south straight line west		angle measurer compasses coordinates degree first quadrant NE, NW, SE, SW north-east north-west origin plot rotate set square south-east south-west translation	protractor rotation symmetry	four quadrants reflection translation

Mathematics						
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Statistics		block tally chart diagram title category column diagram label least common least popular most common most popular pictogram represent row scale table tally	axes axis bar chart Carroll diagram chart column data frequency table grid interval row Venn diagram	interpret questionnaire survey time graph	bar line chart database line graph maximum minimum mode outcome range timetable value x-axis y-axis	average distribution mean median pie chart rate sample statistics

Algebra						algebra algebraic equation equivalent expression evaluate expression formula formulae symbol unknown variable
Ratio and proportion						comparison proportion quantities ratio scale scale factor