

“Every child is a unique child of God.”

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ST. PAUL'S
C of E Primary School

Mathematics Vocabulary Progression Document.

2024-2025



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This document is designed to assist with the teaching of vocabulary across EYFS, KS1 and KS2 and is aligned with the White Rose schemes of learning, long-term overviews and knowledge organisers. The aim of this document is to give an at-a-glance guide to how our maths curriculum links to the Key Stage 1 and 2 national curriculum, and how it progresses through topics. In each of the major topic areas (Number, Measurement, Geometry and Statistics), the curriculum has been broken down into key areas. For each of these areas, you can then see which NC objectives are covered in that year, together with the term and topic in which that objective is first met.

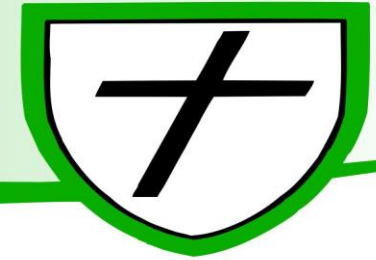


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Number and Place Value

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
numerals digit one more one less equal to more than less than (fewer) backwards forwards compare ordinal/ order subitise count	number to twenty, and beyond none count (on/up/to/from/down) before, after more, less, many, least, fewest, smallest, greater, lesser equal to, the same as odd, even pair units, ones, tens ten more/less digit numeral figure(s) (in) order/a different order size value between, halfway above, below	numbers to one hundred hundreds partition, recombine hundred more/less count in steps count in multiples place value estimate compare	ascending descending 10 or 100 more 10 or 100 less hundreds	negative numbers roman numerals 1000 more 1000 less thousands round	Ten thousand one hundred thousand powers of integer	millions ten million



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Addition and Subtraction

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
total part take away /minus number bonds whole digit add plus altogether	add addition subtractions difference facts missing number problems problems equals inverse 2-digit number	Sum 3-digit number commutative	estimate column addition column subtraction exchange	4 digit numbers operation methods		



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Multiplication and Division

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
odd even group double half twice as many equal unequal share	multiplication division arrays	Commutative multiplication tables repeated addition	exchange mathematical statements missing number problems integer scaling problems correspondence problems derived facts	factor pairs formal written layout distributive law remainders	multiples factors prime numbers square numbers short division cube numbers product dividend divisor quotient operations	long division multi digit numbers



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Fractions, Decimals and Percentages.

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	half whole quarter equal parts	three quarters third equivalent fractions unit fractions non unit fractions numerator denominator one whole	tenths	Decimal equivalence hundredths convert proper fractions improper fractions decimal point	fifth thousandths mixed numbers percent factors integer complements	



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S : M : L
2 : 3 : 1

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Ratio and Proportion

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						relative size missing values integer multiplication percentages scale factor unequal sharing & grouping

Algebra

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						formulae linear number sequences algebraically equation unknowns combinations variables

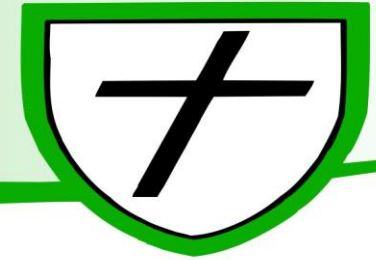


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Measurement (Money)

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Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	money coins notes pounds £ pence p	value change				

Measurement (Measure and Length)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
measure wide narrow compare long (er,est) short (er,est) length	compare	standard unit estimate order results centimetre (cm) metre (m)	millimetre (mm) perimeter	kilometre (km) area rectilinear figure	decimal notation scaling metric units imperial units inches compound shapes irregular shapes square centimetres square metres	conversion miles formulae parallelograms triangles feet

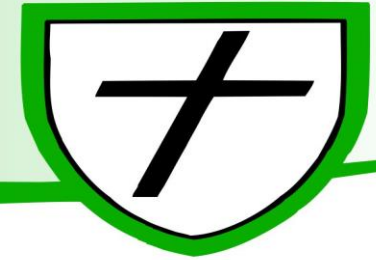


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Measurement (Time)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
next today yesterday tomorrow morning afternoon evening day week hour minutes time quicker slower earlier later before after first	chronological order days of the week months of the year month year o'clock half past second	intervals of time quarter to/past duration	analogue time roman numerals 12-hour clock 24-hour clock am/pm noon midnight leap year digital	convert		



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Measurement (Measure and Length)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
measure wide narrow compare long (er,est) short (er,est) length	compare	standard unit estimate order results centimetre (cm) metre (m)	millimetre (mm) perimeter	kilometre (km) area rectilinear figure	decimal notation scaling metric units imperial units inches compound shapes irregular shapes square centimetres square metres	conversion miles formulae parallelograms triangles feet

Measurement (Height, weight, and capacity)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
big/bigger/biggest full/empty more than less than half/half full height tall weight heavy/light	mass volume	kilograms (kg) gram quarter full three quarters full litres (l) millilitres (ml) temperature Celsius			cubic centimetre pounds pints	cubic centimetre cubic millimetre cubic kilometre gallons stones ounces



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Geometry- Properties of Shape.

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
2-d shapes rectangle squares circle triangle characteristics 3-d shapes cuboids cubes cone spheres curved straight flat	sides corners properties pyramids faces	pentagon hexagon line of symmetry properties cylinder edges vertex vertices	right-angle-triangle heptagon octagon polygon properties prism	isosceles equilateral scalene trapezium rhombus parallelogram kite geometric shapes quadrilaterals orientations angles acute angle obtuse angle turn right angles half turn three quarters of a turn greater than right angle less than right angle horizontal lines vertical lines perpendicular lines parallel lines	regular polygon irregular polygon reflex angles degrees one whole turn angles on straight line angles around a point vertically opposite missing angles	radius diameter circumference dimensions



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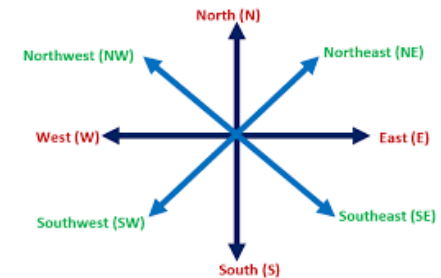
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Geometry- Position and Direction

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
on into through around between under over next to behind beneath order repeat patterns on top of	position direction movement whole turn quarter turn half turn three-quarter-turn	clockwise/anti clockwise straight line rotation arrange sequences		co-ordinates first quadrant grid transition plot polygon axis	reflection	four quadrants co-ordinate plane

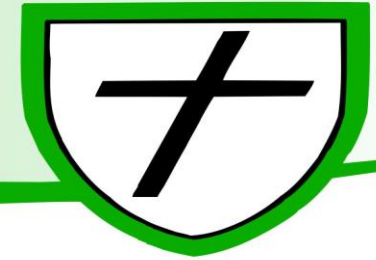


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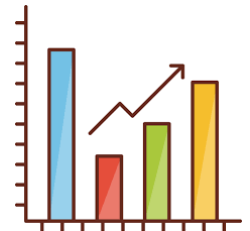
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Statistics

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		pictograms tally charts block diagram category sorting totalling comparing horizontal vertical	Table bar chart one-step-problem two-step-problem	time graph discrete data continuous data line graph comparison data sum problem difference problem calculate interpret	timetable two-way graph	pie chart mean



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