







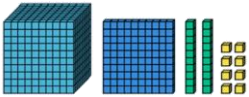
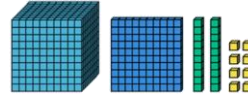
St John's Maths Vocabulary Progression

This document is designed to assist with the teaching of vocabulary across EYFS, KSI and KS2. It is aligned with the Hampshire Assessment Model and HIAS Schemes of Learning. The NCETM Spine Materials were also referred to in the creation of this vocabulary progression. This document identifies in which year group vocabulary should be introduced and explicitly taught. However, language should be revisited in subsequent year groups to ensure children are receiving a consistent, yet progressive diet of Maths vocabulary that children can build upon as the progress through the year groups at St John's. This document is fully editable so language can be moved into earlier or later year groups where necessary. Key vocabulary will be displayed clearly on the Maths working wall from the outset of each learning journey. This needs to be promoted and reinforced through rich mathematical talk in Maths lessons.

<div>   Multiplication and Division   </div>						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
double twice as many half equal not equal odd even groups share/sharing	multiplication multiply groups of lots of repeated addition division divide divided into share equally left /left over arrays row column	multiplication facts times tables commutative multiple unstructured number line divisor dividend grouping fact families inverse two step problem	derived facts factor product quotient repeated subtraction box array	factor pairs distributive law multiplier multiplicand grid method expanded method remainders short division (3 digit x 1 digit)	composite number prime number prime factors square number cubed number square root short multiplication short division (4 digit x 1 digit)	order of operations common factors common multiples long division long multiplication chunking



St John's Maths Vocabulary Progression

<div>  Number and Place Value  </div>						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
number numbers 0-20 how many...? count forwards backwards equal less than more than one less one more order pattern odd even subitise	0-100 2-digit number count (up) to count on (from, to) count back (from, to) count in steps of ones, twos... fives... tens... digit every other less, fewer most, least more than > less than < equal to = number line ones teens number tens partition size value	place value place value column hundred hundreds column compare count in multiples of... estimate non-standard partitioning part-part whole model greater than > less than < equal to =	0-1000 thousands column tenths tenths column decimal point Roman numerals I- XII ascending descending consecutive near number	Roman numerals I-C hundredths decimals decimal place round to the nearest... negative integers count through zero	ten thousands one hundred thousand millions powers of prime prime factor complement	ten millions

St John's Maths Vocabulary Progression



Fractions / Decimals / Percentages

Fraction	Decimal	Percentage	Image
$\frac{1}{2}$	0.5	50%	
$\frac{1}{4}$	0.25	25%	
$\frac{3}{4}$	0.75	75%	

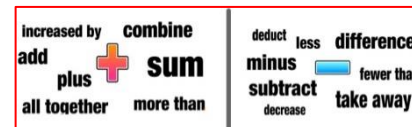
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	whole half (one half, two halves) quarter equal parts sharing grouping bar model	numerator denominator one and a quarter one and 2 quarters one and a half one and 3 quarters three quarters thirds equivalent fractions unit fractions non-unit fractions half as much twice as much	fifths sixths sevenths eighths ninths tenths	decimal equivalence decimal point hundredths convert proper fractions improper fractions proportion	thousandths mixed numbers percent factors integer complements	simplify



St John's Maths Vocabulary Progression



Addition and Subtraction



Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
add plus altogether total take away fewer number bonds part whole digit	number bonds + add/addition more, plus, make total , altogether, sum double near double - subtract, subtraction, take away, minus, How many less? How many fewer? difference equals half, halve 2-digit number number line problem number sentence	calculate partition bridging addend, sum minuend subtrahend difference tens boundary bridging inverse commutative multiple of 10 two step problem	expanded column method column addition column subtraction estimate hundreds boundary carry/carrying (addition) borrow/borrowing (subtraction)	4-digit number operations method/strategy increase decrease tenths boundary		



St John's Maths Vocabulary Progression



Measurement (money)



Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	money coins notes pounds pence penny	value change cost amount				



St John's Maths Vocabulary Progression



Measurement (time)

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



St John's Maths Vocabulary Progression












Measurement (Length Weight, Capacity)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
height long(er) short (er) tall (er) weight/mass (these can be used interchangeably at this stage) heavy light heavier than lighter than big/bigger/biggest smaller/smaller/smallest capacity full empty more than less than half/half full	volume centimetre far distance	kilogram (kg) gram (g) quarter full three quarters full litres l millilitres ml temperature thermometer degrees celsius millimetre metre	perimeter	convert conversion rectilinear area dimensions kilometre	composite metric imperial inch foot yard miles pound pint cm ² cm ³ m ² m ³	mm ³ km ³ speed mph m/s km/h

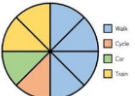
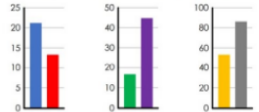


St John's Maths Vocabulary Progression

<div>  cylinder  cone  cube  sphere  tetrahedron <div> Geometry – Properties of Shape <div>  circle  triangle  square  pentagon </div> </div> </div>						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
pattern 2D shapes rectangle square circle triangle 3D shapes cube cuboid sphere curved straight flat	properties sides faces corners/vertices pyramids	pentagon hexagon lines of symmetry cylinder edges vertex vertices	right-angle triangle heptagon octagon polygon prism orientations angles acute angle obtuse angle turn right angles half turn three quarters of a turn greater than a right angle less than a right angle horizontal lines vertical lines perpendicular lines parallel lines	isosceles equilateral scalene trapezium rhombus parallelogram quadrilaterals geometric	regular polygon irregular polygon reflex angles degrees one whole turn full rotation angles around a point vertically opposite missing angles	radius diameter circumference dimensions


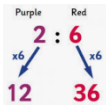


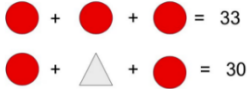
St John's Maths Vocabulary Progression

<div>  Statistics  </div>						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		pictograms tally chart block diagram category sorting table data	interprets scale bar chart one step problem two step problem	label graph time graph (line graph) discrete data continuous data comparison problem sum problem difference problem calculate interpret		pie chart mean average data set



St John's Maths Vocabulary Progression

<div>  <div>Ratio and Proportion</div>  </div>						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						relative size scale factor proportion a:b

<div> <div> $b \times 3 = 45$ </div> <div>Algebra</div>  </div>						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						symbol letter unknown formula sequence equation variable constant



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