Four Swannes Primary School Mathematics Vocabulary Progression

Mathematics Vocabulary Progression document (YR-Y6)

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. This document identifies in which year group vocabulary should be explicitly taught and introduced. However, language should be revisited in subsequent year groups to ensure children are consolidating their understanding. This document is fully editable so language can be moved into earlier or later year groups where necessary. Some vocabulary might be introduced earlier (shapes for instance) if necessary or as part of an activity, however this document ensures coverage is progressive.

Four Swannes Primary School Mathematics Vocabulary Progression

Number: Number and Place Value Vocabulary Progression						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Number; zero; numbers to 20; count, forwards, backwards; how many,more, fewer, equal, group; order, largest, smallest, less; Count, subitise Order/ordinal Compare, numerals Digit, One more One less, Equal to More than Less than (fewer)	Sort, Represent, Multiples, Partitioning, Ones, tens, Numbers to 100; place value; digit, integer; symbol; compare; equal to, more, less, greater than, fewer, less than, greatest, smallest; first, second, third…last; partition, exchange; order, largest, smallest, biggest, least, most.	Count in steps, Count in multiples Place value, Estimate, compare, 2-digit; base 10, pattern, sequence, Numbers to one hundred, Hundreds Partition, recombine Hundred more/less	Ascending, descending, 10 or 100 more, 10 or 100 less, hundreds, Numbers to one thousand; 3-digit; thousand	Negative numbers, Roman numerals to one hundred, 1000 more, 1000 less, thousands, round Numbers to ten thousand, round, nearest; approximately; negative, minus, count through zero; tenths, hundredths, 0.25, 0.5, 0.75.	ten thousands, one hundred thousands, powers of 10, integers, Numbers to a million; Roman numerals to one thousand;	Numbers to ten million. Algebra: Function, input, output; algebra, algebraic, rule; expression; substitute; formula, formulae; equation; value, possible values, enumerate.

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	Number: Addition and subtraction					
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Add, plus, altogether, total, take away /minus, digit, One more, one less, how many are left? Same, different, number bond, part-whole,	Number bonds, part, whole; plus; fact family, addition sentence, number sentence; how many more; number line; commutative; addition, more, make, sum, total, add together, altogether; calculation; equals, is the same as(including equals sign); subtraction, take away, minus; difference between, what is the difference? how many more?, how many less? how much more is? how many fewer is? how much less is? problems, missing number problems, 2-digit number, inverse	Sum, 3-digit number, commutative, Bar model; operation, inverse operation; column; exchange; bridge; method	column addition, column subtraction, exchange, regroup; efficient; estimate.	4-digit number, operations, methods, Formal method	Place holder	

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Number: Multiplication and Division						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Double, half, halve, halving, pairs , twice as many, equal, unequal, share, group, odd, even, left over	How many altogether? How may are there?; groups, groups of, equal groups, unequal groups; row, column, array; number sentence; double, doubles; equal groups of 2, equal groups of 5, equal groups of 10; share, sharing, equally, odd, even, multiplication, division, arrays,	multiplication tables, Times-table; facts; multiples; repeated addition; lots of; of; multiply; multiplied by; times; commutative; twos, fives, tens, threes; array; go into; divide, divide between, division, dividing; grouping, sharing;	Fours, eights; remainder; divisor, dividend, quotient. Exchange, mathematical statements, missing number problems, integer scaling problems, correspondence problems, derived facts,	Sixes, sevens, nines; produce, product; associative law; commutativity; factor, factor pair; formal method; distributive law, remainders	Multiples, common factors, square numbers, cube numbers, prime number, composite number, prime factor, square number, cubed number; round up/down, short division, product, dividend, divisor, quotient, operations	multi-digit numbers, long division, Order of operations, BODMAS, common multiple, lowest common multiple

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			Number: Fractions/Decimals/Percentages			
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Half, halve, halving	Whole, parts, equal parts, the same; split; groups; share; equally; quarter; four equal parts, One half, two halves A quarter, two quarters	Two quarters, three quarters, one third, two thirds, equivalent fractions, unit fractions, non-unit fractions, numerator, denominator, one whole, equivalence, equivalent.	Non-unit fraction; tenths, two tenths, three tenths etc; two thirds; fifth, sixth, ninth; decimal, decimal point;	decimal equivalence, hundredths, convert, proper fractions, improper fractions, decimal point, mixed number; hundredths;	Fifth, thousandths, mixed numbers, per cent %, percentage, per hundred, factors, integer, complement, Common denominator; simplify, simplified; convert;	Cancel, highest common factor, common numerator, Ratio, proportion; for every_there are_, :(to); enlargement, scale factor.

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

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Algebra						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
						Formulae, linear number sequences, algebraically, equation, unknowns, combinations, variables

Measurement (Measure and Length)						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Measure, compare, wide(er), narrow(er), long(er)(est), short(er)(est, length, , height, breadth, tall, short, taller/shorter, wider/narrower	Compare, Length, measure, measuring; ruler, cm;	standard units, estimate, order, record results, centimetre cm, metre m, distance;	millimetre mm, perimeter	kilometres km, rectilinear figure, area, square centimetres;	decimal notation, scaling, metric units, imperial units, inches, compound shape, irregular shapes, square centimetres, square metres	Conversion, miles, formulae, parallelograms, triangles, feet

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Measurement (Height, Weight and Capacity)						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Height, long(er)/short(er), tall(er)/short(er), weigh, weight, capacity, balance heavy/light, heavier than, heaviest, lighter than, lightest, big/bigger/biggest, full/empty, more than, less than, half/half ful	Mass, volume, balance, scale; full, half full, quarter full, empty; capacity; holds, Container;	kilogram kg, gram g, quarter full, three quarters full, litres l, millilitres ml, temperature, thermometer, degrees Celsius, increase, decrease, warmer, colder;		warmest, coldest.	pounds, pints

volume, capacity, cm cubed/cubic cm. | cubic metre, cubic millimetre, cubic kilometre, gallons, stones, ounces, Tonnes, |

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Measurement (Time)							
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
quicker, slower, earlier, later, before, after, first, next, today, week, hour, minutes, Now, before, soon, fastest; time, yesterday, today, tomorrow, day, week, weekend, month, year; Days of the week: Monday, Tuesday, etc. Seasons: spring, summer, autumn, winter; birthday, holiday; Morning, afternoon, evening, night, midnight bedtime, dinner/lunch time, playtime;	chronological order, days of the week, months of the year, month, year, hour, o'clock, half past, watch, hands; hour, minute, second; half past, second, before, after next, last now, soon, early, late quick, quicker, quickest, quickly, fast, faster, fastest, slow, slower, slowest, slowly old, older, oldest, new, newer, newest	intervals of time, quarter past/to, duration, quarter past/to, 5 past, 10 past, twenty to etc, start, duration, end, interval, how long…? When did it start /end/finish…?, seconds;	analogue clock, digital, 12-hour clock, 24-hour clock, a.m./p.m, noon, midnight, leap year, leap year; minutes past/to; Roman numerals I to XIII.		timetable	

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		Measurement (Money)				
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
	Money, coins, notes, value; amount; 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10; pounds £, pence p,	Value, Change, total				

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Geometry – Properties of Shape						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
2-d shapes, 3-d shapes, rectangle, square, circle, triangle, characteristics, cylinder, cuboids, cubes, cones, spheres, curved, side, straight, curved, flat, pyramid, face, same, different, pattern.	Sides, corners, properties, pyramids, faces, edges, make, build, draw, polygon, 2D, 3D, group, sort, corner (point, pointed),	Pentagon, hexagon, octagon, quadrilateral; prism, properties, cylinder, edges, vertices, vertex, rotate, Symmetry, symmetrical, line of symmetry; horizontal, vertical; Fold; pattern, repeating pattern.	right-angle triangle, heptagon, octagon, polygon, properties, prism, orientations, angles, acute angle, obtuse angle, turn, half turn, three quarters of a turn, right angles, greater than right angle, less than right angle, horizontal lines, verticle lines perpendicular lines, parallel lines, surface	Isosceles, equilateral, scalene, trapezium, rhombus, parallelogram, kite, geometric shapes, quadrilaterals, regular polygon; mirror line, reflect.	regular polygon, irregular polygon reflex angles, degrees, one whole turn, angles on straight line, angles around a point, vertically opposite, missing angles, protractor, , dimensions; net.	Radius, diameter, circumference, dimensions, Vertically opposite (angles), internal angles; diameter, centre.

Geometry – Position and direction						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Over, under, between, next to, around, through, on, into, next to, behind, beneath, order, repeat, patterns, on top of	Direction; movement, move; position; left, right, up, down; top, bottom, middle, above, below, between; in front, behind. Turn, full; whole turn, quarter turn, half turn, three-quarter turn	Direction, forwards, backwards; right angle; rotation, Clockwise, anticlockwise. straight line, rotation, arrange, sequences	North, South, East, West; angle, point, acute, obtuse; ninety degrees Orientation (same orientation, different orientation)	co-ordinates, first quadrant, grid, translation, plot, polygon, x-axis, y-axis.	Reflection, reflect.	co-ordinate plane four quadrants

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Statistics						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Pictograms, count Tally chart, block diagram, table; data, represent, sort; category, sorting, totalling, comparing, horizontal, vertical, symbol; axis; label, title, scale; most popular, most common, least popular, least common; Venn diagram, Carrol diagram.	Table, frequency table, chart, bar chart, one-step problem, two-step problem, Carroll diagram, Diagram	time graph, discrete data, continuous data, line graph, comparison problem, sum problem, difference problem, calculate, interpret, x-axis, y-axis.	Timetable, two-way tables	pie chart, mean