

Mathematical Vocabulary Progression Document

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. To save repetition of vocabulary, words are listed only where they are first introduced. For example, although the word 'sharing' is used throughout school, it is listed in Reception. Key vocabulary should be revisited in subsequent year groups, retrieved regularly and quizzed often to ensure children are consolidating their understanding. Some vocabulary might be introduced earlier (shapes for instance) if necessary or as part of an activity, however, this document ensures coverage is progressive.

Place Value							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
amount backwards collection count few fewer (than) forwards backwards how many largest lot(s) more (than) number numeral same smallest subitise	after before different represent zero	amount compare count on digit fewest greater than greatest less than most number line one(s) order ordinal numbers (first, second, third etc) partition place value ten(s)	estimate exchange interval least multiple quantity value	ascending descending hundred(s) part sequence whole 3-digit number	place holder Roman numeral round thousand(s) 1000 more 1000 less 4-digit number	hundred thousands integer negative number million(s) power of 10 ten thousand	ten million

Addition and subtraction							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	1 less 1 more add add more altogether first left now part take away whole	addition add together subtraction subtract difference double efficient equal to fact family greater group inverse less minus near double number bond plus symbol systematic total	calculation exchange method multiple one(s) operations partition related facts ten(s) value increase decrease sum	column digit estimate hundred(s) crossing the 10 crossing the 100	complements round thousand(s)	accurate approximate	order of operations

Multiplication and division							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	double, equal groups, even, fair, grouping, groups, odd, pair, sharing, unequal	array, divide, repeated addition, multiply	half, lots of, twice, times, times-table	commutative, inverse, multiple, product, remainder, scaling	derived facts, distributive law, factor, factor pair, triple, efficient	common multiple, common factor, cube number, cubed, powers of, prime number, square number, squared	composite number, order of operations,

Fractions, decimals and percentages							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		equal parts, fraction, half, quarter, whole	numerator, denominator, equivalent, unit fraction, non-unit fraction	scale, compare, convert	decimal, decimal equivalent, decimal place, decimal point, hundredths, improper fraction, mixed number, proper fraction, tenths	common denominator, fractional part, percentage, thousandth	simplify, simplest form, recurring

Measure (money)							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		amount, coin, note, money, pence (p), pound (£), unitise, value	change, cost, worth	convert	decimal		

Measure (length and height)							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
big, bigger, large, little, small, smaller	height, length, long, longer, longest, measure, short, shorter, shortest, tall, taller, tallest	centimetres, ruler	metres	convert, millimetres, perimeter	area, kilometres, rectilinear, width	imperial, inches, metric, volume	formula

Measure (mass, capacity and temperature)							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
big, bigger, large, little, small, smaller	balanced, balancing scales, empty, float, full, heavier, heaviest, heavy, least, less, light, lighter, lightest, mass, more, most, narrow, sink, tall, thin, weight, wide	capacity, container, non-standard, volume	celsius, circular scales, degrees, grams, kilograms, litres, millilitres, temperature, thermometer	convert		cubic, centimetres, imperial metric, pints, pounds	formula, gallon, ounces, tonnes

Measure (time)							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
first, next, now, then	after, afternoon, before, clock, day, evening, later, lunchtime, minute, morning, night, night-time, today, tomorrow, week, weekend, yesterday	half past, hour, month, o'clock, second, watch, week	five-minute intervals midnight, noon, quarter past, quarter to	analogue clock, 12-hour clock, 24-hour clock, digital clock, duration, leap year, am, pm, Roman numerals			

Pattern							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
after, line, next, pattern, spot, star, stripe, swirl, zigzag	continue, copy, mistake, repeat, repeating, pattern, same, unit of repeat		decreasing, increasing, sequence				

Shape							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
build, curved, curvy, different, flat, match, pointy, round, same, sharp, stack	2-d shape, 3-d shape, circle, cone, corner, cube, cuboid, curved, cylinder, face, flat, pyramid, rectangle, rotate, set, sides, solid, sort, sphere, square, straight, surface, triangle	properties	edge, line of symmetry, symmetrical, vertex, vertices	acute, obtuse, angle, vertical horizontal, parallel, perpendicular, polygon, right angle	equilateral, regular, irregular, isosceles, kite, parallelogram, quadrilateral, rhombus, scalene, trapezium	adjacent, degrees, reflex angle	base, circumference, diameter, dimensions, interior angles, intersect, net, opposite, angles, radius

Position and direction							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
behind, between, down in, in front, inside, move, on, out, outside, over, through, under, up	above, around, backwards, below, beside, bottom, forwards, map, next to, position, route. top	far, full turn, half turn, left, near, quarter turn, right, three-quarter turn, direction	anti-clockwise, between, clockwise		coordinates, grid, plot, point, reflection, translation,	quadrant	x -axis y -axis

Statistics							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			block diagram, key, pictogram, table, tally chart, collect, record	axis, bar chart, cell, horizontal axis, label, scale, two-way table, title, vertical axis	data, estimate, continuous data, grouped data, interpret, interval, line graph	timetable, variable	average, dual bar chart, mean, pie chart

Ratio and Proportion							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
							additive, enlargement, multiplicative, proportion, ratio, scale factor, scaling, simplest form

Algebra							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
							algebra, equation, expression, function, input, linear output, rule, solve, substitution, value