Mawsley CP School

Key Mathematical Language Progression by Year Group

Number and Place Value

Reception
1-20 ordinal numbers (1st, 2nd etc) more, less, estimate, bigger, smaller, how many, odd, even, pattern, zero, number one, two, three … to twenty and beyond, teens numbers, eleven, twelve … twenty none how many …? count, count (up) to, count on (from, to), count back (from, to) count in ones, twos, fives, tens, is the same as, more, less, odd, even, few, pattern, pair, digit, the same number as, as many as, larger, bigger, greater, fewer, smaller, fewest, smallest, least most, greatest, compare, order, size, next, between, guess, how many …? nearly, close to, just over, just under, too many, too few, enough, not enough

Year One	Year Two
sort, groups, pattern, digits, number, count on, count back, one more, one more than, one less, one less than, matched, equal to, = , fewer, less than, most, greatest, number line, number track, ten frame part-whole model, part, whole, groups number sentence, number bonds plus equal to more than, less than	less than, fewer, smaller, less, (<) more (>) equal to, (=) greatest, biggest fewest, smallest tens, ones how many?, count, partition, place value, grid, part-whole model

Year Three	Year Four
hundreds (100s), tens (10s), ones (1s) place value more, less greater than (>), less than (<) equal to = order, compare digit, one thousand, part-whole model, place value grid, number line estimate, halfway, exchange taller, tallest, longest, shortest, greatest, smallest, most, least, fewest	tens (10s), hundreds (100s), thousands (1,000s) rounding, counting, represent, compare, order more than (>), less than (<) partition, recombine, numerals, nearest, distance order, compare round to, nearest negative, positive, step ascending, descending, more, less

Year Five	Year Six
ones (1s), tens (10s), hundreds (100s), thousands (1,000s), ten thousands (10,000s) place value, position partition, equivalent, estimate, closer to, between, round, next multiple, previous multiple, nearest, multiple of 10, 100, 1,000 or 10,000 compare, order, greater than (>), less than (<), Roman Numerals, place value ones (1s), tens (10s), hundreds (100s), thousands (1,000s), ten thousands (10,000s), hundred thousand (100,000s), million (1,000,000) partition, partitioning number line, count, negative number, positive number, minus, rounding, round up, round down, estimate, compare, order sequence, rule, ascending, descending, less than (<),greater than, nearest	ones (1s), tens (10s), hundreds (100s), thousands (1,000s), ten thousands (10,000s), hundred thousands (100,000s), millions (1,000,000s), ten million (10,000,000), place value, partition/partitioned/partitioning, interval estimate, compare/comparison/comparing, order/ordering, less than (<), equal to (=) rounding/rounded/round, up/round down/rounds, negative, positive, odd, even accurate/accurately, exactly, approximately

Addition and Subtraction

Reception
add, more, and, make, sum, total, altogether, double, one more, two more … ten more, how many more to make …? how many more is … than …? how much more is …? take away, how many are left/left over? how many have gone? one less, two less, ten less …, how many fewer is … than …? how much less is …?

Year One	Year Two
part, whole and part-whole, altogether, in total, total, sum add, added, plus, +, count, count on missing, missing part, number bonds, number pairs, number stories, how many are left ?, take away, taken away, subtract, subtraction, addition, count back, count backwards, difference, How many more? How many fewer? more than, >, less than, <	part, whole and part-whole add, added, plus, total, altogether, sum, calculation, +, count, count on, count back, left, subtract, take away, minus, −, exchange, compare, greater than, less than, more, less, (>), (<), ones, tens, 10 more, 10 less, place value, column, 1-digit number, 2-digit number, number sentence, number bonds, known fact, fact family, difference, regroup, represent, bar model number sentence, number bonds, known fact, fact family, inverse

Year Three	Year Four
add, addition subtract, subtraction, take away, difference, exchange, pattern, variation, column method, mental method, part-whole model, number line total, altogether, calculations, regroup, partition, solutions place value, number bonds, fact family, related facts, number statements, method, order hundreds (100s), tens (10s), ones (1s), digits, zero (0), multiple of 10, multiples of 100, 3-digit number, 2-digit number, 10 ones, 10 tens , left , greater than (>), less than (<), fewer, more, metres (m), miles, centimetres (cm), symbol, add, addition, subtract, subtraction, total, whole, part, place value , column method mental method, mentally estimate, estimation, approximate, approximation, approximately, about, fact family, bar model, digits, multiple, logically, function machine, inverse	addition, subtraction, total, more than, less than difference, exchange, column method, estimate, accurate, efficient, exact, strategy, diagram, inverse

Year Five	Year Six
add, subtract 1s (ones), 10s (tens), 100s (hundreds), 1,000s (thousands), 10,000s (ten thousands), total, difference, inverse, round, mentally, estimate	add, subtract, sum, total, difference, method, column, columnar , product, approximation, divide, division, short division, long division factor, multiple, divisor, dividend, remainder, inverse, grid method, fraction, simplify, numerator, denominator, factor, common factor multiple, common multiple, prime, squared (x2), cubed (x3) order of operations, brackets, inverse operation

Multiplication and Division

Reception
patterns, repeat, share, half, divide, double

Year One	Year Two
equal groups, array, row, column, double, twice, add, addition, adding, altogether, total, equal groups, same, different, share, sharing, equally, fairly , total, each, division, divide	equal groups, repeated addition, skip counting, number in a group, number of groups, times times-table, multiply/multiplication (×) more than, less than (< and >) array, rows/columns, bar model, equal parts, number of equal parts, times bigger/times taller/ times, greater, twice as big, divide, division, the division sign (÷) share, group odd, even , number of equal groups
Year Three	**Year Four**
equal groups, unequal groups, shared equally multiply (×), multiplication statement, multiplication fact, multiplication sentence, divide (÷), division statement, division fact, times-table group, share, whole, left over, remainder, one-step, two-step, multi-step, array, bar model, number line, pattern, count up, total, double, method, repeated addition, multiplication, division, greater than, less than, equal, remainder, share, partition, tens (10s), ones (1s), exchange	times-table, times, times by multiply (×), multiple, multiply by, divide (÷), divide by, grouping, groups of, lots of, sets of, grouped, x groups of , sharing, share, equal, equally number facts, number sentences, multiplication facts/ sentences, division facts/sentences, fact family, ones (1s), tens (10s), hundreds (100s), zero (0), how many, total, method, calculation, exchange, solve, less then (), added, sort, sum, recall multiplication (×), multiplication statement, grouping, groups, equal, total, repeated addition, correspondence, multiply, combinations division statement, whole, left over, remainder, one-step, two-step, multi-step, array, bar model, part-whole model
Year Five	**Year Six**
multiple, factor, prime number, composite number, square (x2), cube (x3), multiply, multiplication, times, divide, division, inverse, operation, place value, ones, tens, hundreds, thousands, tens of thousands, total, sum, remainder, place value, partition, multiply, divide, add, subtract, factor,	add, subtract, sum, total, difference, method, column, columnar, multiply, multiplication, product, approximation, divide, division, short division, long division, factor, multiple, divisor, dividend, remainder, inverse, grid method, fraction, simplify, numerator, denominator, factor, common factor, multiple, common multiple, prime squared (x2), cubed (x3), order of operations, brackets, inverse operation

Money

Reception	
coins, 1p, 2p, 5p, altogether, add, pounds, enough, bill, change, amount, costs, money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay	

Year One	Year Two
pound, penny, pennies, pence, coins, notes, banknotes, £, p, greater, than, less than, equal, total, altogether, and, =, greater, than, less than, value, worth	money, coins, notes pounds (£), pence (p) change, left, right, money, buy(s), spend, step, how much?, value, amount, total, altogether, parts, between, difference, count on, sort, match, compare, add, addition, calculate, subtraction great(er/est), smallest, exact(ly), higher, lower, most, least, more than (>), less than (<) equal =, part-whole model, number line

Year Three	Year Four
pounds (£) and pence (p), convert, total, difference, change	notes, coins, pounds (£), pence (p), add (+), subtract (−), change, round to the nearest, order, greater than (>), less than (<), cheaper, more expensive, estimate, over estimate, under estimate, total

Year Five	Year Six

Statistics

Reception	
more, less, how many, altogether, count, sort group, set list	
Year One	**Year Two**
count, sort, vote group, set list, table	tally chart, tally, pictogram, block diagram, table, more, less, most, least favourite, popular, equal, represent, symbol, key, information total, altogether, compare
Year Three	**Year Four**
pictogram, key, symbol , compare, least, most altogether, bar chart, horizontal axis, vertical axis, scale, half-way between, table, row, column, order, smallest, largest, total	table, line graph, bar chart, pictogram, discrete data, continuous data, operation, altogether, more than, greatest, smallest, compare
Year Five	**Year Six**
line graph, dual line graph, horizontal axis, vertical axis, axes, scale data, information, read, interpret, complete, table, two-way table	average, mean, set, share, pie chart, segment, whole, section, degree, angle, right angle, tally chart, bar chart, fraction, percentage, line graph, axis/axes, estimate, accurate, interpret, increase, above, below, zero (0), value, x-axis, y-axis, minus (–), between, plot, point, vertical, horizontal, construct, convert/conversion, straight, equivalent, predict, curve more, equal, even, size, total, share, great(er/est), calculate, divide, highest, compare, lowest, group, data, represent, balance, odd, different/difference, least, inverse, operation, advantages, disadvantages, largest, half, scale, quarter, frequency, smallest, part, same, more, category, results, exact

Length, height, area and perimeter

Reception
length, longer, shorter, height, further, far, distance, tall, taller, big, little, middle size, small, medium, long, short, tiny, large, centimetres, thickest, enormous, measure, size, compare, guess, estimate enough, not enough, too much, too little, too many, too few, nearly, close to, about the same as, just over, just under, metre length, width, depth, low, wide, narrow, thick, thin, longest, shortest, tallest, highest, near, close

Year One	Year Two
long, longer, longest short, shorter, shortest, tall, taller, tallest length, height, compare, comparison, measure distance unit, non-standard units, ruler, centimetre (cm), total, difference	length, height, width, distance, long, longer, short, shorter, tall, metres (m), centimetres (cm) order, compare, ruler, metre stick, measure, zero, greater than (>), less than (<), equal to =

Year Three	Year Four
millimetres (mm), centimetres (cm), metres (m) measure, measurement, length, height, width, distance, diagonal, how long? how wide? how tall? how high? ruler, metre stick, metre ruler, longer, shorter, longest, shortest, furthest, perimeter, addition, subtraction, find the difference, repeated addition, multiplication greater than (>), less than (<) equal to =	kilometres, metres, centimetres, convert, equivalent to, perimeter, distance, around, total length, width, square, rectangle, rectilinear shape, area, space, inside, units, rows length, width, measure, shape, triangle, square, rectangle, trapezium, rectilinear shape, 2D shapes, larger, more area, smaller, less area, least area, greatest area, right angle, counting, subtraction, reflection, rotation, compare, order, size

Year Five	Year Six
perimeter, distance, area, space, scale, actual, area/actual size, convert, centimetres (cm), metres (m), square centimetres (cm2), square metres (m2), rectangle, square, rectilinear shape, sides, length, width, measure, combine, brackets, total, double, estimate, array convert, equal to, equivalent, approximately, per, measure, remainder, multiple inch (in), foot (ft), yard (yd) millimetre, centimetre, metre, kilometre, metric units, imperial unit, length	units (of measure/ment), metric, imperial, length, distance, measure, convert, equal, equivalent, approximate, smaller (unit), larger (unit), for every, ratio, millimetres (mm), centimetres (cm), metres (m), kilometres (km), inches (in), feet (ft),miles, gallons, yards, digits, decimal, conversion table, conversion graph, perimeter, distance, area, space, volume, centimetres (cm), metres (m), square centimetres (cm2), square metres (m2), rectangle, square, triangle, rectilinear shape, sides, length, width, parallelogram, cube, cuboid measure, combine, total, double, estimate

Mawsley CP School

Fractions

Reception
share, half, divide, pieces, parts

Year One	Year Two
half, halves, quarter, equal, share, split part, whole	fraction, half (1/2), quarter (1/4), third (1/3), whole, part, equal part, numerator, denominator, fraction bar, unit, fraction, non-unit fraction, equivalent, three-quarters (3/4), equal, divided by (÷) odd, even, share, pattern

Year Three	Year Four
part, whole, equal parts, fraction, unit fraction, non-unit fraction, denominator, numerator, partition, split, share, group, interval, combine, count on, count back, represent, halves, thirds, quarters, fifths, sixths, sevenths, eighths, ninths, tenths, elevenths, twelfths, mixed number, whole number, fractional part, integer, set of objects, compare, calculate, method, whole number, add, subtract, difference, multiply, divide, equal to, greater than (>), less than (<)	tenth, hundredth equivalent fraction, improper fraction, mixed number, simplify, simplest fraction, numerator, denominator fraction, whole number, mixed number, proper fraction, improper fraction, add (+), subtract (−), multiply (×), divide (÷), sign, greater than (>), less than (<) whole, part, find … of … , fraction strip, represent, number line, diagram, problem solving

Year Five	Year Six
equivalent, numerator, denominator, whole, fraction, simplify, expand multiply (×), divide (÷), multiplication, division, multiple, factor, remainder, improper, mixed number, convert, greater than (>), less than (<)equal to (=) divisor, dividend, quotient, fraction, whole, part, equal parts, add, sum, total, subtract, difference, divide, multiply, multiple, common denominator, convert, proper fraction, improper fraction, mixed number, method, multi-step, efficient	whole, part, numerator, denominator, common denominator, equivalent, simplify, simplest form, factor, highest common factor, lowest common multiple, compare order, ascending, descending less than, greater than, proper fraction, improper fraction, mixed number, convert, numerator, denominator, multiply, divide, proper fraction, improper fraction, mixed number, whole number whole, part, order of operations

Time

Reception
o'clock, minutes, clock, time, today, tomorrow, day after, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday , early, yesterday, night, birthday, holiday, morning, afternoon, evening, night bedtime, dinner time, playtime, before, after next, last, now, soon, late, quick, quicker, quickest, quickly, slow, slower, slowest, slowly, old, older, oldest, new, newer, newest, takes longer, takes less, hour, watch, hands

Year One	Year Two
before, after, faster, slower, shorter, longer, earlier, later, yesterday, today, tomorrow, day, week, month, year Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, calendar, date minute hand, hour hand, second hand, o'clock, half past, second, minute, hour	hands, face, hour, minute, analogue, o'clock, past, to, half past, quarter past, quarter to, quarter of an hour, almost, same, units, last, convert, how long, passed, shorter, longer, fastest, slowest five, ten, fifteen, twenty, twenty-five, thirty, thirty-five, forty, forty-five, fifty, fifty-five, sixty, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, time, start time, end time, duration, time taken, finish, forwards, backwards, twice, 24 hours, 60 minutes, day, daytime, night time, around the clock, am, pm midday, midnight, morning, afternoon

Year Three	Year Four
month, year, leap year, January, February, March, April, May, June, July, August, September, October, November, December, day, hour, minute, second midnight, midday/noon, hour hand, minute hand, past, to, half past, o'clock, quarter past, quarter to, Roman numerals, longer, shorter, the same, units, last, convert, how long, left , passed, fastest, slowest, 12-hour clock, 24-hour clock, start time, end time, duration, time taken, finish, forwards, backwards, twice daytime, night time, around the clock, am, pm morning, afternoon, evening, night.	seconds, minutes, hours, days, weeks, months, years, units of time, convert, equal to (=), compare 12-hour, 24-hour, am, pm analogue, digital

Year Five	Year Six
timetable, 24-hour, digital, duration second, minute, hour, day, week, month, year	

Geometry: Angles, properties of shape, 2D and 3D

Reception
cube, cuboid, sphere, edges, corners, faces, square, triangle, rectangle, circle pentagon, hexagon, shape, pattern, flat, curved, straight round, hollow, solid, sort, make, build, draw, size, bigger, larger, smaller symmetrical pattern, repeating pattern

Year One	Year Two
2D, 3D, cube, cuboid, sphere, cylinder, pyramid, cone, circle, triangle, square, rectangle, side, edge, face, corner, pattern, repeat	circle, semicircle, oval, triangle, square, rectangle, quadrilateral, polygon, pentagon, hexagon, octagon, sphere, hemisphere, cone, ovoid, cylinder, triangle-based pyramid, square-based pyramid, pentagon-based pyramid, hexagon-based pyramid, cube, cuboid triangular prism, pentagonal prism, hexagonal prism, 2D, 3D properties, side, vertex, vertices, edge, face, pattern, symmetry, symmetrical, line of symmetry, curved surface

Year Three	Year Four
right angle, quarter turn, half turn, acute angle, obtuse angle, vertical, horizontal, parallel, perpendicular, triangle, quadrilateral, square, rectangle, trapezium, rhombus, kite, pentagon, hexagon, cube, cuboid, sphere, pyramid, prism, cylinder, cone, triangular prism, square-based pyramid, tetrahedron, describe, property, 2D, 3D, draw accurately, construct	angle, acute, obtuse, right angle, quarter turn, half turn, interior angles, exterior angles, quadrilateral, square, oblong, rectangle, rhombus, parallelogram, trapezium, pentagon, hexagon, octagon, hexadecagon, kite, arrowhead, polygon, circle, triangle, isosceles, equilateral, scalene, regular, irregular, side length, length, perimeter, symmetrical, symmetry, line of symmetry, horizontal, vertical, diagonal, reflective, sequence, pattern, sort, group, compare, order, properties, shape, vertices, parallel

Year Five	Year Six
angle, turn, whole turn, half turn, quarter turn, acute angle, right angle, obtuse angle, reflex angle, degrees (°) 90 degrees, 180 degrees, 360 degrees interior angle, protractor, parallel, perpendicular angle, right angle, interior angle, grid, regular, irregular, polygon, quadrilateral, 2D, 3D viewpoint	degrees, measurement, length, angle, obtuse, acute, reflex, right angle, interior, protractor, baseline, crosshairs, scale, vertex, edge, face parallel, properties, triangle, isosceles, equilateral, scalene, regular, polygon, quadrilateral, parallelogram, kite, rhombus, trapezium, diameter, radius, circumference, concentric, centre, perimeter, pyramid, tetrahedron, cylinder, prism, cuboid, cube

Geometry: Position and Direction

Reception
up, down, around, left, right, above, below, behind, in front, underneath, next to, around, position, over, under, above, below, top, bottom, side on, in, outside, inside, around, front, back, beside, opposite, apart, between, middle, edge, corner, direction, left, right up, down, forwards, backwards, sideways, across, next to, close, near, far, along, through, to, from, towards, away from, movement, slide, roll, turn stretch, bend, whole turn, half turn

Year One	Year Two
turn, position, direction, half turn, quarter turn, three-quarter turn, whole turn, left , right, in between, forwards, backwards, above, below top, middle, bottom, up, down	quarter, turn, half turn, three-quarter turn, whole turn, clockwise, anticlockwise, forwards, backwards, left , right, up, down, turn, middle, position, pattern, above, below, top, bottom, between, cube, cylinder, circle, semicircle triangle, rectangle, square

Year Three	Year Four
	coordinates, position, horizontal, vertical, up, down, left, right, square, rectangle vertex, vertices

Year Five	Year Six
reflection, translation, mirror line, coordinate, horizontal, coordinate, vertical, coordinate, horizontal axis, vertical axis	plotting, coordinates, quadrant, point, axis, x-axis, y-axis, grid, x-coordinate, y-coordinate, vertices, vertex, square, side, rectangle, triangle, equilateral, oblong, shape, irregular, hexagon, identical, similar, parallelogram, perimeter, metre (m), distance, length, long, horizontal, vertical halfway, line, properties, value, reason, negative, positive, translation, reflection, original, left, down, up, right, mirror, away, diagonal

Mass

Reception	
weight, heavier, heavy, lighter, light, weigh, weighs, balances, heavy, light, heavier than, lighter than heaviest, lightest scales	
Year One	**Year Two**
	balance, comparing, estimating, reasoning, accurately, total, scale, interval, 100s, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1,000, mass, weight, grams (g), kilograms (kg), kilos , heavier, heaviest, lighter, lightest , more than, (>), less than (<)identical (=), divide (÷)
Year Three	**Year Four**
mass, weigh, measure, grams (g), kilograms (kg) interval, scale	
Year Five	**Year Six**
mass, quantity, metric units, gram, kilogram, imperial units, ounce (oz), pound (lb), stone (st), convert, equal to, equivalent, approximately, per, measure, remainder, multiple	units (of measure/ment), metric, imperial, mass, volume, measure, convert, equal, equivalent, approximate, smaller (unit), larger (unit), for every, ratio , grams (g), kilograms (kg), ounces (oz), pounds (lbs), digits, decimal, conversion table, conversion graph.

Capacity, Volume and Temperature

Reception	
full, empty, half full, enough, full, empty, holds, container	
Year One	**Year Two**
	volume, capacity, millilitres (ml), litres (l), temperature, thermometer, degrees Celsius (°C) , more than, (>), less than (<), identical (=), divide (÷) greater, greatest, least, smaller, smallest, full, half, three quarters, quarter, nearest to, X times as much, hotter, hottest, warmer, warmest, colder, coldest, cooler, coolest
Year Three	**Year Four**
capacity, amount, measurement litres (l), millilitres (ml), scale, number line, interval, compare, convert, order	
Year Five	**Year Six**
capacity, quantity, metric units, millilitre, litre, millimetre, imperial units, pint (pt), gallon, convert, equal to, equivalent, approximately, per, measure, remainder, multiple	units (of measure/ment), metric, imperial, volume, capacity, convert, equal, equivalent, approximate, smaller (unit), larger (unit), for every, ratio, millilitres (ml), litres (l), inches (in), feet (ft), pints, gallons, digits, decimal, conversion table, conversion graph.

Decimals and Percentages

Reception	
Year One	**Year Two**
Year Three	**Year Four**
	decimal point, whole, tenths, hundredths, integer, tenths column, hundredths column, one more, one less, greater than, less than, increase, decrease, divide, regroup, equivalent, partition, tens (10s), ones (1s), tenths, hundredths, fraction decimal point, decimal place, 0·1, 0·01, equivalent, number bond, equivalent fraction, whole number, digit, rounding, round up, round down, multiply (×), divide (÷), greater than (>), less than (<)
Year Five	**Year Six**
decimal place, tenths, hundredths, thousandths, decimal point, place value, digits, fractions, per cent (%), rounding, improper fractions, mixed numbers, convert, exchange, add, subtract, multiply, divide, ones, tenths, hundredths, thousandths, difference, group, share, compare, represent, decimal, decimal point, decimal place, digit, column, place value, exchange, mass, weight, length, width, cost, height	multiply (×), divide (÷), decimal, placeholder, place value, tenths, hundredths, thousandths factor, multiple, product group, share, numerator, denominator, convert, simplify, equivalent, divisor, dividend, quotient, remainder, per cent (%), percentage, parts, whole, decimal fraction, equivalent fraction, tenth, hundredth, half, quarter, less than (<) divide (÷), share, multiply (×) convert, compare, order, simplify

Algebra

Reception

Year One	Year Two

Year Three	Year Four

Year Five	Year Six
	pattern, growing pattern, sequence, rule, term, algebra, algebraic, expression, formula, formulae, substitute, generalise, operation, calculation, calculate, equation, inverse, solution, represent, value

Ratio and Proportion

Reception

Year One	Year Two

Year Three	Year Four

Year Five	Year Six
	ratio, ratio notation, 1 : 2, proportion, part, whole, total, group, fraction, unequal, equal simplest form, simplify, for every x there are y, similar enlarge, enlargement, scale, map scale, scale factor