

Mathematical Vocabulary

Part of being mathematically fluent is being able to talk about mathematics; describe procedures, explain understanding, teach someone else how to do it. Vocabulary and language structures (sentence stems) are carefully planned for. The grid below shows how mathematical vocabulary is accumulated.

EYFS	
Number	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
Place Value	Ones, tens, digit, the same number as, as many as, more, larger, bigger, greater, fewer, smaller, less, fewest, smallest, least, most, biggest, largest, greatest, one more, ten more, one less, ten less, compare, order, size, first, second, third... twentieth, last, last but one, before, after, next, between
Addition & Subtraction	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 ...? difference between
Multiplication & division	Sharing, doubling, halving, number patterns
Fraction	parts of a whole, half, quarter,
Measure	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
Length	Metre, length, height, width, depth, long, short, tall, high, low, wide, narrow, thick, thin, longer, shorter, taller, higher ... and so on, longest, shortest, tallest, highest ... and so on, far, near, close
Weight	weigh, weighs, balances, heavy, light, heavier than, lighter than, heaviest, lightest, scales
Capacity & volume	Full, empty, half full, holds, container
Time	Time, days of the week, Monday, Tuesday ... day, week, birthday, holiday, morning, afternoon, evening, night, bedtime,, dinner time, playtime, today, yesterday, tomorrow, before, after, next, last, now, soon, early, late, quick, quicker, quickest, quickly,slow, slower, slowest, slowly, old, older, oldest, new, newer, newest, takes longer, takes less time, hour, o'clock, clock, watch, hands
Money	Money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay
Property of shape	shape, pattern, flat, curved, straight, round, hollow, solid, sort, make, build, draw, size, bigger, larger, smaller, symmetrical, pattern, repeating pattern, match
Shape names	corner, side, rectangle, square, circle, triangle, face, edge, vertex, vertices, cube, pyramid, sphere, cone
Position & direction	Position, over, under, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, beside, next to, 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

Statistics	count, sort, group, set, list
General	Pattern, puzzle, what could we try next? how did you work it out? Recognise, describe, draw, compare, sort

YEAR 1	
Number	Numerals, twenty-one, twenty-two ... one hundred, forwards, backwards, equal to, equivalent to, most, least, many, multiple of
Place Value	equal to, half-way between, above, below, roughly
Addition & Subtraction	Addition, near double, half, halve, subtract, equals, is the same as, number bonds/pairs, missing number,
Multiplication & division	Multiplication, multiply, multiplied by, multiple, division, dividing, grouping, array
Fraction	Fraction, equal part, equal grouping, equal sharing, one of two equal parts, one of four equal parts
Measure	Measurement, roughly
Length	centimetre, Ruler, metre stick
Weight	kilogram, half kilogram
Capacity & volume	litre, half litre, capacity, volume, more than, less than, quarter full
Time	months of the year (January, February ...) seasons: spring, summer, autumn, winter, weekend, month, year, earlier, later, first, midnight, date, how long ago? how long will it be to ...? how long will it take to ...? how often? always, never, often, sometimes, usually, once, twice, half past, quarter past, quarter to, clock face, hour hand, minute hand, hours, minutes
Money	Change, dear, costs more, cheap, costs less, cheaper, costs the same as, how much ...? how many ...? Total,
Property of shape	symmetry, symmetrical, symmetrical pattern
Shape names	point, pointed, cuboid, cylinder,
Position & direction	Underneath, centre, journey, quarter turn, three-quarter turn
Statistics	Vote, table, ,
General	problem, problem solving, mental, mentally, explain your thinking

YEAR 2	
Number	two hundred ... one thousand, threes, fours and so on, tally, sequence, continue, predict, rule, > greater than, < less than
Place Value	Hundreds, digit, one-, two- or three-digit number, place, place value, stands for, represents, exchange, twenty-first, twenty-second ...exact, exactly,
Addition & Subtraction	one hundred more, one hundred less, facts, tens boundary,
Multiplication & division	groups of, times, once, twice, three times ... ten times, repeated addition, divide, divided by, divided into, share, share equally, left, left over, one each, two each, three each ... ten each, group in pairs, threes ... tens, equal groups of, row, column, multiplication table, multiplication fact, division fact
Fraction	equivalent fraction, mixed number, numerator, denominator, two halves, two quarters, three quarters, one third, two thirds one of three equal parts,
Measure	measuring scale
Length	further, furthest, tape measure
Weight	gram
Capacity & volume	Millilitre, contains,
Temperature	Temperature, degree
Time	Fortnight, 5, 10, 15 ... minutes past, digital/analogue clock/watch, timer, seconds
Money	Bought, sold,
Property of shape	Surface, line symmetry
Shape names	Rectangular, circular, triangular, pentagon, hexagon, octagon
Position & direction	Route, higher, lower, clockwise, anticlockwise, right angle, straight line
Statistics	tally, graph, block graph, pictogram, represent, label, title, most popular, most common, least popular, least common
General	show how you ...explain your method, describe the pattern, describe the rule, investigate, mental calculation, written calculation

YEAR 3	
Number	eights, fifties, hundreds, factor of, relationship, Roman numerals
Place Value	one hundred more, one hundred less, approximate, approximately, round, nearest, round to the nearest ten, hundred, round up, round down
Addition & Subtraction	hundreds boundary,
Multiplication & division	Factor, product, remainder
Fraction	sixths, sevenths, eighths, tenths ...
Measure	Division, approximately,
Length	Millimetre, kilometre, mile, distance apart ... between ... to ... from, perimeter
Weight	
Capacity & volume	
Temperature	centigrade
Time	Century, calendar, earliest, latest, a.m., p.m., Roman numerals, 12-hour clock time, 24-hour clock time
Money	
Property of shape	Perimeter,
Shape names	Pentagonal, hexagonal, octagonal, quadrilateral, right-angled, parallel, perpendicular, hemisphere, prism, triangular prism
Position & direction	compass point, north, south, east, west, N, S, E, W, horizontal, vertical, diagonal, angle ... is a greater/smaller angle than, acute angle, obtuse angle
Statistics	chart, bar chart, frequency table, Carroll diagram, Venn diagram, axis, axes, diagram
General	greatest value, least value, statement

YEAR 4	
Number	ten thousand, hundred thousand, million, sixes, sevens, nines, twenty-fives, next, consecutive, integer, positive, negative above/below zero, minus, negative numbers
Place Value	one thousand more, one thousand less,
Addition & Subtraction	inverse

Multiplication & division	Inverse, square, squared, cube, cubed
Fraction	Hundredths, decimal, decimal fraction, decimal point, decimal place, decimal equivalent, proportion
Measure	unit, standard unit, metric unit
Length	Breadth, edge, area, covers, square centimetre (cm ²)
Weight	mass: big, bigger, small, smaller, weight: heavy/light, heavier/lighter, heaviest/lightest
Capacity & volume	measuring cylinder
Temperature	
Time	leap year, millennium, noon, date of birth, timetable, arrive, depart
Money	
Property of shape	Line, construct, sketch, centre, angle, right-angled, base, square-based, reflect, reflection, regular, irregular,
Shape names	2-D, two-dimensional, oblong, rectilinear, equilateral triangle, isosceles triangle, scalene triangle, heptagon, parallelogram, rhombus, trapezium, polygon, 3-D, three-dimensional, spherical, cylindrical, tetrahedron, polyhedron,
Position & direction	north-east, north-west, south-east, south-west, NE, NW, SE, SW, translate, translation, rotate, rotation, degree, reflection, ruler, set square, angle measurer, compass
Statistics	survey, questionnaire, data,
General	Justify, make a statement

YEAR 5	
Number	factor pair, \geq greater than or equal to, \leq less than or equal to, formula, divisibility, square number, prime number, ascending/descending order
Place Value	ten thousand, ones boundary, tenths boundary,
Addition & Subtraction	
Multiplication & division	
Fraction	proper/improper fraction, equivalent, reduced to, cancel, thousandths, in every, for every, percentage, per cent, %,
Measure	imperial unit,
Length	square metre (m ²), square millimetre (mm ²)
Weight	

Capacity & volume	pint, gallon
Temperature	
Time	
Money	Discount, currency
Property of shape	radius, diameter, congruent, axis of symmetry, reflective symmetry,
Shape names	x-axis, y-axis, quadrant, octahedron
Position & direction	Coordinate, protractor,
Statistics	Database, bar line chart, line graph, maximum/minimum value, outcome,
General	explain your reasoning

YEAR 6	
Number	Factorise, prime factor, digit total
Place Value	
Addition & Subtraction	
Multiplication & division	
Fraction	Ratio,
Measure	
Length	yard, foot, feet, inch, inches, circumference
Weight	tonne, pound, ounce,
Capacity & volume	Centilitre, cubic centimetres(cm ³), cubic metres (m ³), cubic millimetres (mm ³), cubic kilometres (km ³)
Temperature	
Time	Greenwich Mean Time, British Summer Time, International Date Line
Money	profit, loss
Property of shape	circumference, concentric, arc, net, open, closed, intersecting, intersection, plane,
Shape names	Kite, Dodecahedron, net, open, closed



Position & direction	reflex angle
Statistics	pie chart, mean (mode, median, range as estimates for this) statistics, distribution
Algebra	Formulae, equation, unknown, variable
General	