

# Maths

## Vocabulary Ladders

### Document



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Number and Place Value Vocabulary Ladder

**Reception**

number, one, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, teen numbers, none, count, more, odd, few, same, less, even, pattern, pair, ones, tens, digit, many, more, most, large, larger, largest, big, bigger, biggest, greater, greatest, fewer, fewest, smaller, smallest, least, compare, order, size, first, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth, last, before, after, next, between, estimate, over, under, enough, part, whole, describe,

**Year 1**

numeral, thirty, forty, fifty, sixty, seventy, eighty, ninety, one hundred, forwards, backwards, equal, equivalent, multiple, half-way, above, below, roughly, partition, greater than, less than

**Year 2**

hundred, tally, sequence, continue, predict, rule, >greater than, <less than, one digit, two digit, place, value, represents, stands for, value, exact, exactly

**Year 3**

hundreds, fifties, nearest, Roman numeral, approximate, approximately, round, thousand,

**Year 4**

thousands, consecutive, integer, positive, negative, minus, Roman numeral,

**Year 5**

descending, ascending, million, ten thousand, hundred thousand

**Year 6**

ten million

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Addition and Subtraction Vocabulary Ladder

**Reception**

add, more, and, make, sum, total, altogether, double, take away, left, less, fewer, difference, part, whole

**Year 1**

addition, near double, half, halve, equal, the same as, number bonds, number pairs, subtraction, missing number, distance between, how many/ how much more to make...? How many/ much more is .... than? minus, problem, partition, how much less is... than...? How many fewer is ... than..?

**Year 2**

Bridging, tens boundary, commutative, inverse, calculate, calculation, mental method, written method, column addition, column subtraction, one-step problem, two-step problem

**Year 3**

hundreds boundary, column addition, column subtraction

**Year 4**

**Year 5**

multi-step problem, ones boundary, tenths boundary, level of accuracy, rounding to estimate

**Year 6**

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Multiplication and division Vocabulary Ladder

**Reception**

Sharing, double, doubling, half, halving

**Year 1**

Double, near double, halve, grouping, multiply, multiplication, multiply by, multiple, division, divide, divide by, array,

**Year 2**

Groups of, times, repeated addition, divided into, share equally, left over, group in, rows, columns, multiplication table, multiplication fact, division fact, commutivity,

**Year 3**

Factor, product, remainder, scaling, times as long / high / wide / heavy, associativity,

**Year 4**

Square, squared, cube, cubed, factor pair, distributive,

**Year 5**

Common factor, composite number, long multiplication, non-integer, divisible, power of, prime number, prime factor, equivalence statement

**Year 6**

Factorise, digital total

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Fractions Vocabulary Ladder

**Reception**

Part, whole

**Year 1**

Fraction, equal, group, share, half, quarter, equal group

**Year 2**

Equivalent, numerator, denominator, halves, quarters, thirds, straight line, unit fraction, non-unit fraction

**Year 3**

tenths

**Year 4**

Hundredths, decimal

**Year 5**

Mixed, proper, improper, convert, thousandths, percentages

**Year 6**

Proportion, simplify, ratio, simplest form

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Properties of shape Vocabulary Ladder

**Reception**

Shape, pattern, flat, curved, straight, round, hollow, solid, sort, make, build, draw, size, bigger, larger, smaller, symmetrical, repeating, match, 2D shape, corner / vertex, corners, vertices, rectangle, square, oblong, circle, triangle, 3D shape, vertices, vertex, edge, face, sphere, cone, cube, pyramid, surface

**Year 1**

Symmetry, symmetrical, cuboid, cylinder

**Year 2**

Line symmetry, circular, rectangular, triangular, pentagon, hexagon, octagon

**Year 3**

Perimeter, pentagonal, hexagonal, octagonal, quadrilateral, right-angled, parallel, perpendicular, hemisphere, prism,

**Year 4**

Line, construct, centre, angle, right-angled, base, reflect, square-based, reflection, regular, irregular, rectilinear, equilateral, isosceles, scalene, heptagon, parallelogram, rhombus, trapezium, polygon, tetrahedron, polyhedron,

**Year 5**

Congruent, reflective symmetry, axis of symmetry, tetrahedron, dodecahedron

**Year 6**

Radius, diameter, circumference, concentric, arc, intersecting, bisecting, plane, kite, net

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Algebra Vocabulary Ladder

Reception

Year 1

Year 2

Year 3

Year 4

Year 5

Year 6

Formulae, equation, unknown, expression, variable, substitute,  
generate, linear, combination, simplify

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Position and direction Vocabulary Ladder

**Reception**

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, towards, from, away from, movement, slide, roll, turn, stretch, bend, whole turn, half turn,

**Year 1**

Underneath, centre, journey, quarter turn, point

**Year 2**

Route, higher, lower, clockwise, anti-clockwise, right-angle, straight line,

**Year 3**

Compass point, north, south, east, west, horizontal, vertical, diagonal, angle, acute, obtuse,

**Year 4**

North-east, north-west, south-east, south-west, translate, translation, rotate, rotation, degree, reflection, ruler, set square, angle measurer, protractor, compass

**Year 5**

X-axis, y-axis, quadrant, coordinate, reflex,

**Year 6**