

Maths Vocabulary

This document sets out the mathematical vocabulary we use throughout school. We display the key vocabulary on our 'Maths Working Walls' at appropriate times throughout the year depending on the topic being taught. The mathematical vocabulary the children need to learn is promoted through talk and discussions during maths lessons as we are aware that children cannot learn the meanings of words in isolation. We also use questioning to help them to understand mathematical ideas and use mathematical terms correctly.

The mathematical words listed include all the vocabulary that the children will have been introduced to in previous years with new words for Year 5 highlighted in red.

Mathematical language continues to be developed through KS2 to the words that children are expected to know and be able to use in Year 6.

Maths Vocabulary Year 5

Number and place value

Number, numeral, zero, one, two, three to twenty, and beyond to one hundred, two hundredone thousand, ten thousand, hundred thousand, million

How many...?

Count (on/up/to/from/down)

Forwards, backwards

Count in ones, twos, fives, tens, threes and fours, eights, sixes, sevens, nines, twenty fives, fifties and so on to hundred

Equal to, equivalent, is the same as, as many as, pair, rule, relationship, next, consecutive, > greater than, < less than, \geq greater than or equal to, \leq less than or equal to

Roman numerals

Integer, positive, negative, above/below zero, minus, negative numbers, formula
divisibility, square number, prime number, ascending/descending order

More, most, less, least, lesser, many, few, fewer, fewest, smaller, smallest, larger, largest, greater, greatest, bigger, biggest, sequence, continue, predict

Odd and even

Multiple of, factor of, factor pair

One more, ten more, one less, ten less, one hundred more, one hundred less, one thousand more, one thousand less

Units, ones, tens, digit, one-, two- or three-digit number, place, place value stands for, represents, exchange, numeral

First, second, third, third.....twentieth, twenty first, twenty second etc

Last, last one, last but one

Before, after, next, between, half-way between, above, below

Compare, order, size, tally

Addition and subtraction

Addition, add, more, and, make, sum, total, altogether

Double, near double, half, halve

One more, two more...ten more, one hundred more.....

How many more to make...?

How many more is.... than ...?

How much more is?

Subtract, take away, how many are left/left over?

How many have gone? How many fewer is..... than....?, How much less is...?

One less, two less, ten less, one hundred less

Difference between

Equals, is the same as

Number bonds/pairs/facts tens boundary, hundreds boundary, ones boundary, tenths boundary

Estimating

Guess, how many ...? estimate, nearly, roughly, close to, approximately, approximate, about the same as, just over, just under, too many, too few, enough, not enough, exact, exactly, round, nearest, round to the nearest ten, hundred, thousand, *ten thousand*, round up, round down

Multiplication and Division

Multiplication, multiply, multiplied by, multiple, factor, groups of, times, product, once, twice, three times ... ten times, repeated addition

Division, dividing, divide, divided by, divided into
grouping, sharing, share, share equally, left, left over, remainder, one each, two each, three each ... ten each, group in pairs, threes ... tens
equal groups of

Multiplication table, multiplication fact, division fact

Doubling, halving, array, row, column

Number patterns

Inverse, square, squared cube, cubed

Fractions

Fraction, *proper/improper fraction*, equivalent fraction, mixed number, numerator, denominator, *equivalent, reduced to, cancel*, equal part, equal grouping, equal sharing

Parts of a whole, half, two halves, one of two equal parts, quarter, two quarters, three quarters, one of four equal parts, one third, two thirds, one of three equal parts, sixths, sevenths, eighths, tenths ... hundredths, *thousandths*

Decimal, decimal fraction, decimal point, decimal place, decimal equivalent, proportion, *in every, for every percentage, per cent, %*

Measure

Measure, measurement, measuring scale, division

Size, compare, unit, standard unit, metric unit, *imperial unit*

Guess, estimate

Enough, not enough, too much, too little, too many, too few. nearly, close to, about the same as, approximately, roughly, just over, just under

Length

Millimetre, centimetre, metre, kilometre, mile

Length, height, width, depth, breadth

Long, short, tall, high, low, wide, narrow, thick, thin, longer, shorter, taller, higher, longest, shortest, tallest, highest

Far, further, furthest, near, close, distance apart ... between ... to ... from

Edge, perimeter, area, covers, square centimetre (cm²), square metre (m²), square millimetre (mm²)

Ruler, metre stick, tape measure

Weight

Kilogram, half kilogram, gram, weigh, weighs,

Balances, scales

Heavy, light, heavier than, lighter than, heaviest, lightest, mass: big, bigger, small, smaller, heavier/lighter, heaviest/lightest

Capacity and volume

Litre, half litre, millilitre, pint, gallon

Capacity, volume

Full, empty, more than, less than, half full, quarter full, holds, contains

Temperature

Temperature, degree, centigrade

Time

Days of the week, months of the year, seasons, day, week, weekend, fortnight, month, year, leap year, century, millennium, calendar, date, date of birth, birthday, morning, noon, afternoon, evening, night, bedtime, midnight

Today, yesterday, tomorrow

Before, after, earlier, later, next, first, last, now, soon, early, late, earliest, latest

Quick, quicker, quickest, quickly, slow, slower, slowest, slowly

Old, older, oldest, new, newer, newest

Takes longer, takes less time, how long ago? How long will it be to ...? How long will it take to ...? How often?

Always, never, often, sometimes, usually, once, twice

Hour, o'clock, half past, quarter past, quarter to, 5, 10, 15 ... minutes past, a.m, p.m
clock, clock face, watch, hands, digital/analogue clock/watch, timer, hour hand, minute hand, hours, minutes, seconds, timetable, arrive, depart

Roman numerals, 12-hour clock time, 24-hour clock time

Money

Money, coin, penny, pence, pound

Price, cost, buy, bought, sell, sold, spend, spent, pay, change, dear, costs more, cheap, costs less, cheaper, costs the same as

How much ...? How many....? total, *discount*, *currency*

Geometry

Properties of shape

Shape, pattern, flat, line, curved, straight, round, hollow, solid, centre, *radius*, *diameter*, surface

Sort, make, build, construct, draw, sketch, perimeter, angle, right-angled, *congruent*, base, square-based

Reflect, reflection, *axis of symmetry*, *reflective symmetry*

Size, bigger, larger, smaller

Symmetry, symmetrical, symmetrical pattern, line symmetry, repeating pattern, match, regular, irregular

2-D shape

2-D, two-dimensional

Corner, side, point, pointed, rectangle (including square), rectangular, oblong
rectilinear, circle, circular, triangle, triangular, equilateral triangle, isosceles triangle, scalene
triangle, pentagon, pentagonal hexagon, hexagonal, heptagon, octagon, octagonal
Quadrilateral, parallelogram, rhombus, trapezium, polygon, right-angled, parallel,
perpendicular

3-D shape

3-D, three-dimensional, face, edge, vertex, vertices

Cube, cuboid, pyramid, sphere, spherical, hemisphere, cone, cylinder, cylindrical, prism,
triangular prism, tetrahedron, polyhedron, *octahedron*

Position and direction

Position, over, under, underneath, above, below, top, bottom, side, on, in, outside, inside,
around, in front, behind, front, back, beside, next to, opposite, apart, between, middle, edge,
centre, corner

Direction, journey, route, left, right, up, down, higher, lower, forwards, backwards, sideways,
across, next to, close, near, far, along, through, to, from, towards, clockwise, anti-
clockwise, away from

Compass point, north, south, east, west, N, S, E, W, north-east, north-west, south-east,
south-west, NE, NW, SE, SW, horizontal, vertical, diagonal, translate, translation, *coordinate*

Movement, slide, roll, turn, stretch, bend

Whole turn, half turn, quarter turn, three-quarter turn, rotate, rotation, degree, right angle,
straight line, ruler, set square, angle measurer, compass, *protractor*

Angle ... is a greater/smaller angle than, acute angle, obtuse angle, reflection

Statistics

Count, tally, sort, vote, survey, questionnaire, data, *database*, group, block graph, pictogram, represent, group, set, list, table, chart, bar chart, frequency table, *bar line chart*, Carroll diagram, Venn diagram, *line graph*, label, title, axis, axes, diagram, most popular, most common, least popular, least common, *maximum/minimum value*, *outcome*

General

Pattern, puzzle, problem, problem solving, mental, mentally
Recognise, describe, draw, compare, sort

What could we try next?

How did you work it out?

Show how you....

Explain your thinking

Explain your method

Describe the pattern, describe the rule, investigate

Mental calculation, written calculation, greatest value, least value, statement, *justify*, *make a statement*

Explain your reasoning