

# 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 6 highlighted in red.

# Maths Vocabulary Year 6

## Number and place value

Number, numeral, zero, one, two, three to twenty, and beyond to one hundred, two hundred .....one 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 hundreds

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, **factorise**, **prime factor**, ascending/descending order, **digit total**

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

## 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, **ratio**, percentage, per cent, %

Algebra - **Formula, formulae, equation, unknown, variable**

## 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, yard, foot, feet, inch, inches

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, circumference, area, covers, square centimetre (cm<sup>2</sup>), square metre (m<sup>2</sup>), square millimetre (mm<sup>2</sup>)

Ruler, metre stick, tape measure

### Weight

Tonne, kilogram, half kilogram, gram, pound, ounce, 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, centilitre, cubic centimetres (cm<sup>3</sup>), cubic metres (m<sup>3</sup>), cubic millimetres (mm<sup>3</sup>), cubic kilometres (km<sup>3</sup>) 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, **Greenwich Mean Time, British Summer Time, International Date Line**

## 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, **profit, loss**

# Geometry

## Properties of shape

Shape, pattern

Flat, line, curved, straight, round, hollow, solid, centre, radius, diameter, *circumference*, *concentric*, *arc*, *net*, *open*, *closed*, surface

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

Reflect, reflection, axis of symmetry, reflective symmetry

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, *kite*, 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, *dodecahedron*, *net*, *open*, *closed*

## 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, *reflex 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, *pie chart*, label, title, axis, axes, diagram, most popular, most common, least popular, least common, maximum/minimum value, outcome, *mean (mode, median, range as estimates for this), statistics, distribution*

## General

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

What could we try next?  
Show how you....  
Explain your method  
Describe the rule,  
justify, make a statement,

How did you work it out?  
Explain your thinking  
Describe the pattern,  
Investigate, justify  
Explain your reasoning

Mental calculation, written calculation, greatest value, least value, statement,