



Christ Church Primary School

Through God's love we learn, aspire and achieve; we flourish

Mathematical Vocabulary

The 2014 National Curriculum is explicit in articulating the importance of pupils using the correct mathematical language as a central part of their learning.

This section sets out KS1 and KS2 maths vocabulary under the 2014 National Curriculum.

The tables can be used to check pupils' understanding of new vocabulary introduced in Years 1-6. The lists are intended as a guide to what pupils should know, and are not exhaustive.

New vocabulary should be introduced in a suitable context (for example, with relevant real objects, manipulatives, pictures or diagrams) and explained precisely. High expectations of the mathematical language used are essential, with teachers modelling accurate mathematical vocabulary and expecting pupils' responses to include it *in full sentences*.

| RECEPTION | | | | | | | |
|--|--|-----------------------------|---|-----------------------------------|--|-----------|--------------------------------|
| Number and place value | Addition and subtraction | Multiplication and division | Measure | Geometry (position and direction) | Geometry (properties of shape) | Fractions | General/problem solving |
| Number Zero, one, two, three,...to twenty. Count Before, after, next Equal Double Fewer, less, more First, second, last | Add, altogether, plus, sum, total Minus, subtract, take away Number bond | Group, pair Share | Measure Balance, mass Size Clock, time Cost Distance, length, line, long, short, tall Mass Empty, full | Above, below, between, direction | 2D, 3D Circle, rectangle, square, triangle Cube, cuboid, cylinder Corner, edge, curved surface, face, flat, side, straight, surface | Half | Compare, describe, order, sort |

| | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|
| Number line, number track | | | | | | | |
| Pattern, sequence | | | | | | | |

YEAR 1

| Number and place value | Addition and subtraction | Multiplication and division | Measure | Geometry (position and direction) | Geometry (properties of shape) | Fractions | General/problem solving |
|--|---|--|--|--|---|-------------------------------|---|
| Number | Number bonds, number line | Odd, even | Full, half full, empty | Position | Group, sort | Whole | Listen, join in |
| Zero, one, two, three to twenty, and beyond | Add, more, plus, make, sum, total, altogether | Count in twos, threes, fives | Holds | Over, under, underneath, above, below, top, bottom, side | Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square | Equal parts, four equal parts | Say, think, imagine, remember |
| None | Inverse | Count in tens (forwards from/backwards from) | Container | on, in, outside, inside | Shape | One half, two halves | Start from, start with, start at |
| Count (on/up/to/from/down) | Double, near double | How many times? | Weigh, weighs, balances | around, in front, behind | Flat, curved, straight, round | A quarter, two quarters | Look at, point to |
| Before, after | Half, halve | Lots of, groups of | Heavy, heavier, heaviest, light, lighter, lightest | Front, back | Hollow, solid | | Put, place, fit |
| More, less, many, few, fewer, least, fewest, smallest, greater, lesser | Equals, is the same as (including equals sign) | Once, twice, three times, five times | Scales | Before, after | Corner (point, pointed) | | Arrange, rearrange |
| Equal to, the same as | Difference between | Multiple of, times, multiply, multiply by | Time | Beside, next to, Opposite | Face, side, edge | | Change, change over |
| Odd, even | How many more to make..? How many more is...than..? | Repeated addition | Days of the week: Monday, Tuesday, etc. | Apart | Make, build, draw | | Split, separate |
| Pair | How much more is..? | Array, row, column | Seasons: spring, summer, autumn, winter | Between, middle, edge, centre | | | Carry on, continue, repeat & what comes next? |
| Units, ones, tens | Subtract, take away, minus | Double, halve | Day, week, month, year, weekend | Corner | | | Find, choose, collect, use, make, build |
| Ten more/less | | Share, share equally | Birthday, holiday | Direction | | | Tell me, describe, pick out, talk about, explain, show me |
| Digit | | | Morning, afternoon, evening, night, midnight | Journey | | | Read, write, record, trace, copy, complete, finish, end |
| | | | Bedtime, dinnertime, playtime | Left, right, up, down, forwards, backwards, sideways | | | |
| | | | Today, yesterday, tomorrow | Across | | | |
| | | | Before, after | | | | |
| | | | Next, last | | | | |

| | | | | | | | |
|--|--|---|---|---|--|--|--|
| <p>Numeral Figure(s) Compare (In) order/a different order Size Value Between, halfway between Above, below</p> | <p>How many fewer is...than..? How much less is..?</p> | <p>Group in pairs, threes, etc. Equal groups of Divide, divided by, left, left over</p> | <p>Now, soon, early, late Quick, quicker, quickest, quickly , fast, faster, fastest, slow, slower, slowest, slowly Old, older, oldest, new, newer, newest Takes longer, takes less time Hour, o'clock, half past Clock, watch, hands How long ago? How long will it be to...? How long will it take to...? How often? Always, never, often, sometimes, usually Once, twice First, second, third, etc. Estimate, close to, about the same as, just over, just under Too many, too few, not enough, enough Length, width, height, depth Long, longer, longest, short, shorter shortest, tall, taller, tallest, high, higher, highest Low, wide, narrow, deep, shallow, thick, thin Far, near, close Metre, ruler, metre stick</p> | <p>Close, far, near Along, through To, from, towards, away from Movement Slide, roll, turn, whole turn, half turn Stretch, bend</p> | | | <p>Fill in, shade, colour, tick, cross, draw, draw a line between, join (up), ring, arrow Cost Count, work out, answer, check same number(s)/different number(s)/missing number(s) Number facts, number line, number track, number square, number cards Abacus, counters, cubes, blocks, rods, die, dice, dominoes, pegs, peg board Same way, different way, best way, another way In order, in a different order Not all, every, each</p> |
|--|--|---|---|---|--|--|--|

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | Money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay, change, dear(er), costs more, costs less, cheaper, costs the same as How much? How many? Total | | | | |
|--|--|--|--|--|--|--|--|

YEAR 2

| Number and place value | Measure | Geometry (position and direction) | Geometry (properties of shape) | Fractions | Data/statistics | General/problem solving |
|---|--|--|--|---|--|---|
| Numbers to one hundred Hundreds Partition, recombine Hundred more/less | Quarter past/to m/km, g/kg, ml/l Temperature (degrees) | Rotation Clockwise, anticlockwise Straight line Ninety degree turn, right angle | Size Bigger, larger, smaller Symmetrical, line of symmetry Fold Match Mirror line, reflection Pattern, repeating pattern | Three quarters, one third, a third Equivalence, equivalent | Count, tally, sort Vote Graph, block graph, pictogram, Represent Group, set, list, table Label, title Most popular, most common, least popular, least common | Predict Describe the pattern, describe the rule Find, find all, find different Investigate |

YEAR 3

| Number and place value | Addition and subtraction | Multiplication and division | Measure | Geometry (position and direction) | Geometry (properties of shape) | Fractions | Data/statistics |
|-------------------------|---------------------------------|---|--|---|--|---|--|
| Numbers to one thousand | Column addition and subtraction | Product Multiples of four, eight, fifty and one hundred Scale up | Leap year Twelve- hour/twenty- four- hour clock Roman numerals I to XIII | Greater/less than ninety degrees Orientation (same orientation, different orientation) | Horizontal, perpendicular and parallel lines | Numerator, denominator Unit fraction, non-unit fraction Compare and order Tenths | Chart, bar chart, frequency table, Carroll diagram, Venn diagram Axis, axes Diagram |

YEAR 4

| Number and place value | Addition and subtraction | Multiplication and division | Measure | Geometry (position and direction) | Geometry (properties of shape) | Fractions | Data/statistics |
|---|--------------------------|---|---------|--|---|-----------------------------------|---------------------------------|
| Tenths, hundredths Decimal (places) Round (to nearest) Thousand more/less than Negative integers Count through zero Roman numerals (I to C) | | Multiplication facts (up to 12x12) Division facts Inverse Derive | Convert | Coordinates Translation Quadrant x-axis, y-axis Perimeter and area | Quadrilaterals Triangles Right angle, acute and obtuse angles | Equivalent decimals and fractions | Continuous data Line gra |

YEAR 5

| Number and place value | Addition and subtraction | Multiplication and division | Measure | Geometry (position and direction) | Geometry (properties of shape) | Fractions, decimals and percentages |
|------------------------|--------------------------|--|--|-----------------------------------|--------------------------------|---|
| Powers of 10 | Efficient written method | Factor pairs Composite numbers, prime number, prime factors, square number, cubed number Formal written method | Volume Imperial units, metric units | Reflex angle Dimensions | Regular and irregular Polygons | Proper fractions, improper fractions, mixed numbers Percentage Half, quarter, fifth, two fifths, four fifths Ratio, proportion |

YEAR 6

| Number and place value | Addition and subtraction | Multiplication and division | Geometry (position and direction) | Geometry (properties of shape) | Fractions, decimals and percentages | Algebra | Data/statistics |
|------------------------|--------------------------|---|-----------------------------------|---|-------------------------------------|---|-------------------|
| Numbers to ten million | Order of operations | Order of operations Common factors, common multiples | Four quadrants (for coordinates) | Vertically opposite (angles) Circumference, radius, diameter | Degree of accuracy Simplify | Linear number sequence Substitute Variables Symbol Known values | Mean Pie c |

