Maths Vocabulary for the New National Curriculum

This document sets out Key Stage 1 (KS1) and Key Stage 2 (KS2) maths vocabulary under the new 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 as to what pupils should know, and are not exhaustive. Of course, key terms may be introduced earlier as a challenge for our learners, although it is also important to ensure that learning is ‘new’ and carries an ‘element of surprise’.

It is expected that key vocabulary is displayed on ‘Maths Learning Walls’ at appropriate times during the academic year, and is promoted through mathematical talk in lessons.

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| **New maths vocabulary for 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  Zero, one, two, three to twenty, and beyond  None Count  (on/up/to/from/  down)  Before, after  More, less, many, few, fewer, least, fewest, smallest, greater, lesser  Equal to, the same as  Odd, even | Number bonds, number line  Add, more, plus, make, sum, total, altogether  Inverse  Double, near double  Half, halve  Equals, is the same as (including equals sign)  Difference between  How many more to make..?, how | Odd, even  Count in twos, threes, fives  Count in tens (forwards from/backwards from)  How many times?  Lots of, groups of  Once, twice, three times, five times  Multiple of, times, multiply, multiply by  Repeated addition | Full, half full, empty Holds  Container  Weigh, weighs, balances  Heavy, heavier, heaviest, light, lighter, lightest  Scales Time  Days of the week: Monday, Tuesday, etc.  Seasons: spring, summer, autumn, winter  Day, week, month, year, weekend  Birthday, holiday  Morning, afternoon, evening, | Position  Over, under, underneath, above, below, top, bottom, side  on, in, outside, inside  around, in front, behind  Front, back  Before, after  Beside, next to, Opposite  Apart  Between, middle, edge, centre  Corner | Group, sort  Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square  Shape  Flat, curved, straight, round  Hollow, solid  Corner (point, pointed)  Face, side, edge  Make, build, draw | Whole  Equal parts, four equal parts  One half, two halves  A quarter, two quarters | Listen, join in  Say, think, imagine, remember  Start from, start with, start at  Look at, point to Put, place, fit Arrange, rearrange  Change, change over  Split, separate  Carry on, continue, repeat, what comes next?  Find, choose, collect, use, make, build |

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| Pair  Units, ones, tens  Ten more/less Digit  Numeral Figure(s) Compare  (In) order/a different order  Size  Value  Between, halfway between  Above, below | many more is…than..?, how much more is..?  Subtract, take away, minus  How many fewer is…than..?, how much less is..? | Array, row, column  Double, halve  Share, share equally  Group in pairs, threes, etc.  Equal groups of  Divide, divided by, left, left over | night, midnight  Bedtime, dinnertime, playtime  Today, yesterday, tomorrow Before, after  Next, last  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 | Direction Journey  Left, right, up, down, forwards, backwards, sideways  Across  Close, far, near  Along, through  To, from, towards, away from  Movement Slide, roll, turn,  whole turn, half turn Stretch, bend |  |  | Tell me, describe, pick out, talk about, explain, show me  Read, write, record, trace, copy, complete, finish, end  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 |

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|  |  |  | 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  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 |  |  |  | way, best way, another way  In order, in a different order  Not all, every, each |

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| **New maths vocabulary for 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 | Three quarters, one third, a third  Equivalence, equivalent | Count, tally, sort Vote  Graph, block graph, pictogram,  Represent  Group, set, list, table | Predict  Describe the pattern, describe the rule  Find, find all, find different  Investigate |
|  |  |  | Mirror line, reflection |  | Label, title |  |
|  |  |  | Pattern, repeating pattern |  | Most popular, most common, least popular, least common |  |

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| **New maths vocabulary for 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, vertical, 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 |

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| **New maths vocabulary for year 4** | | | | | | |
| Number and place value | Multiplication  and division | Measure | Geometry (position  and direction) | Geometry (properties  of shape) | Fractions and  decimals | Data/statistics |
| Tenths, hundredths Decimal (places)  Round (to nearest) | Multiplication facts (up to 12x12) | Convert | Coordinates  Translation | Quadrilaterals  Triangles | Equivalent decimals and fractions | Continuous data  Line graph |
| Thousand more/less than | Division facts |  | Quadrant | Right angle, acute and obtuse angles |  |  |
| Negative integers | Inverse |  | x-axis, y-axis |  |  |  |
|  |  |  | Perimeter and area |  |  |  |
| Count through zero | Derive |  |  |  |  |  |
| Roman numerals (I to C) |  |  |  |  |  |  |

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| **New maths vocabulary for 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 | Volume | Reflex angle | Regular and irregular Polygons | Proper fractions, improper fractions, mixed numbers |
|  |  | Composite numbers, prime number, prime factors, square  number, cubed number | Imperial units, metric units | Dimensions |  | Percentage  Half, quarter, fifth, two fifths, four fifths |
|  |  |  |  |  |  | Ratio, proportion |
|  |  | Formal written method |  |  |  |  |

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| **New maths vocabulary for 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 | Four quadrants (for coordinates) | Vertically opposite  (angles) | Degree of accuracy  Simplify | Linear number sequence | Mean  Pie chart |
|  |  | Common factors, common multiples |  | Circumference,  radius, diameter |  | Substitute  Variables | Construct |
|  |  |  |  |  |  | Symbol |  |
|  |  |  |  |  |  | Known values |  |