**Whole School Maths progression of Vocabulary**

|  |
| --- |
| **Generic maths vocabulary:**  Digit, integer, number, answer, solution, solve, work out, systematic, group, share, sort, diagram, represent, pattern, relationship, rule, sequence, explain, correct, incorrect, true, false, agree, disagree, same, different, bar model, part-whole model, formal method, equal to, more, less, greater than, fewer, less than, largest, greatest, least, most, estimate, approximately. |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Number – Place Value** | **Number – Addition and Subtraction** | **Number – Multiplication and Division** | **Number –**  **Fractions** | **Measurement** | **Geometry –**  **Shape** | **Geometry – Position and direction** | **Statistics** |
| **EYFS** | Number; zero; numbers to 20; count, forwards, backwards; how many, more, fewer, equal, group; order, largest, smallest, less; even, odd. | One more, one less, altogether, how many are left? Same, different, number bond, part-whole, add, take-away, | Double, half, halve, halving, pairs, twice as many, share, equal, unequal, group, left over | Half, halve, halving | Now, before, soon, later, after, next, fastest; time, yesterday, today, tomorrow, day, week, weekend,  month, year;  Days of the week: Monday, Tuesday, etc.  Seasons: spring, summer, autumn, winter;  birthday, holiday;  Morning, afternoon, evening,  night, midnight  bedtime, dinner/lunch time, playtime;  length, height, breadth, tall, short, long, tallest, shortest, longest, longer/shorter, taller/shorter, wider/narrower, weigh, weight, heavy, heavier, heaviest, light, lighter, lightest, balance | Shape, circle, triangle, rectangle, square, side, straight, curved, cylinder, cube, cuboid, cone, sphere, pyramid, face, same, different, pattern. | On, next to, over, under, around, through. |  |
| **Year 1**  (as EYFS in addition to …) | Numbers to 100; place value; digit, integer; symbol; compare;  equal to, more, less, greater than, fewer, less than, greatest, smallest;  first, second, third…last;  ones, tens, partition, exchange;  order, largest, smallest, biggest, least, most. | Number bonds, part, whole; plus; fact family, addition sentence, number sentence; how many more; number line; commutative; addition,  more, make, sum, total, add together, altogether; calculation;  Inverse  equals, is the same as (including equals sign); subtract, , subtraction, take away, minus;  difference between, what is the difference?  how many more?, how many less? how much more is?  how many fewer is?, how much less is? | How many altogether? How may are there?; groups, groups of, equal groups, unequal groups; row, column, array; number sentence; double, doubles; equal groups of 2, equal groups of 5, equal groups of 10; share, sharing, equally,  odd, even, | Whole, parts, equal parts, the same; split; groups; share; equally; quarter; four equal parts  One half, two halves  A quarter, two quarters | Length, measure, measuring; ruler, cm; mass; balance, scale; volume, full, half full, quarter full, empty; capacity; holds,  Container; money; value; coin; note; amount; 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10;  hour, o'clock, half past,  clock, watch, hands; hour, minute, second;  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 | Polygon, 2D, 3D, group, sort,  corner (point, pointed)  Face, side, edge  Make, build, draw. | Turn, full, half, quarter, three quarter; direction; movement, move; position; left, right, up, down; top, bottom, middle, above, below, between; in front, behind. |  |
| **Year 2**  (as previous yr group and in addition to …) | 2-digit; base 10; pattern; sequence; Numbers to one hundred  Hundreds  Partition, recombine  Hundred more/less | Bar model; operation, inverse operation; column; exchange; bridge; method; | Times-table; facts; multiples; repeated addition; lots of; of; multiply; multiplied by; times; commutative; twos, fives, tens, threes; array; go into; divide, divide between, division, dividing; grouping, sharing; | Two quarters, three quarters, one third, two thirds;  unit fraction, numerator, denominator, vinculum; equivalence, equivalent. | Change, total; distance; metres;  g/kg; ml/l;  temperature, thermometer, degrees Celsius, increase, decrease, warmer, colder; quarter past/to, 5 past, 10 past, twenty to etc, start, duration, end, interval, how long…? When did it start /end /finish…?, seconds; | Pentagon, hexagon, octagon, quadrilateral; prism; vertices, vertex; rotate;  Symmetry, symmetrical, line of symmetry; horizontal, vertical;  Fold; pattern, repeating pattern. | Direction, forwards, backwards; right angle; rotation,  Clockwise, anticlockwise. | Count, tally, tally chart, table; data, represent, sort; pictogram, symbol; block diagram, axis;  label, title, scale;  most popular, most common, least popular, least common;  Venn diagram, Carrol diagram. |
| **Year 3**  (as previous yr group and in addition to …) | Numbers to one thousand; 3-digit; thousand; ascending, descending; | Column, column addition and subtraction; regroup; efficient; estimate. | Fours, eights; remainder; divisor, dividend, quotient. | Non-unit fraction;  tenths, two tenths, three tenths etc; two thirds; fifth, sixth, ninth; decimal, decimal point; | mm; perimeter; leap year; minutes past/to; a.m., p.m.; analogue, digital;  twelve-hour /twenty-four- hour clock;  Roman numerals I to XIII. | Parallel, perpendicular; surface; acute angle, obtuse angle. | North, South, East, West; angle, point, acute, obtuse; ninety degrees  Orientation (same orientation, different orientation) | Chart, bar chart; frequency table, Carroll diagram,  Diagram |
| **Year 4**  (as previous yr group and in addition to …) | Numbers to ten thousand; Roman numerals to one hundred; round, nearest; approximately; negative, minus, count through zero; tenths, hundredths, 0.25, 0.5, 0.75. | Formal method. | Sixes, sevens, nines; produce, poduct; associative law; commutativity; factor, factor pair; formal method; | Proper fraction, improper fraction, mixed number; hundredths; Gattegno chart. | Km; rectilinear; area, square centimetres; warmest, coldest. | Isosceles, scalene, equilateral; rhombus, parallelogram, trapezium; regular polygon; mirror line, reflect. | Coordinates,  translation,  first quadrant,  x-axis, y-axis. | Continuous data, discrete data; line graph, x-axis, y-axis. |
| **Year 5**  (as previous yr group and in addition to …) | Numbers to a million; Roman numerals to one thousand;  powers of 10. | Place holder. | Common factor, prime number, composite number, prime factor, square number, cubed number; round up/down. | Common denominator; thousandth; simplify, simplified; convert; per cent, percentage, per hundred; | Imperial units, metric units, inches, lbs, pints; timetable; compound shape; volume, capacity, cm cubed/cubic cm. | Degrees, protractor, reflex angle;  irregular polygon, dimensions; net. | Reflection, reflect. |  |
| **Year 6**  (as previous yr group and in addition to …) | Numbers to ten million.  Algebra:  Function, input, output; algebra, algebraic, rule; expression; substitute; formula, formulae; equation; value, possible values, enumerate. |  | Order of operations, BIDMAS;  common multiple, lowest common multiple. | Cancel, highest common factor, common numerator.  Ratio, proportion; for every\_there are\_, :(to); enlargement, scale factor. | Tonnes, ounces, stone, miles. | Vertically opposite (angles), internal angles;  circumference, radius, diameter, centre. | Four quadrants. | Mean, pie chart. |