**Mathematics Vocabulary Progression document (YR-Y6)**

This document is designed to assist with the teaching of vocabulary across EYFS, KS1 and KS2 and is aligned with the White Rose schemes of learning. This document identifies in which year group vocabulary should be explicitly taught and introduced. However, language should be revisited in subsequent year groups, retrieved regularly and quizzed often to ensure children are consolidating their understanding. Some vocabulary might be introduced earlier (shapes for instance) if necessary or as part of an activity, however this document ensures coverage is progressive.

It is expected that key vocabulary is displayed on ‘Maths Learning Walls’ at appropriate times during the academic year and in line with the current topic area being taught within the class and is promoted through mathematical talk in lessons.

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| **Number – Number and Place Value** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Number:**  zero  number  one, to twenty  how many …?  count,  count (up) to,  count on (from, to), count back (from, to) count in ones, twos, fives, tens  is the same as  more, less  odd, even  few  pattern  pair  Subitise  Equal  unequal  **Place value:**  value  ones  tens  digit  the same number as,  as many as  more, larger, bigger, greater  fewer, smaller, less fewest, smallest, least most, biggest, largest, greatest  one more,  one less,  compare order size first, second, third… twentieth  last, last but one before, after next between | sort  represent  multiples  partitioning  twenty through to one hundred  forwards  backwards  equal to  equivalent to  most,  least  many multiple of  Ten more/less, digit, numeral, figure(s), compare, (in) order/a different order, size, value, between, halfway between, above, below, tens, ones | count in steps  count in multiples  place value  estimate  compare  Numbers to one hundred,  hundreds, partition, recombine, more/less | ascending  descending  10 or 100 more  10 or 100 less | Tenths, hundredths, decimal (places), round (to nearest), thousand more/less than, negative integers, count through zero, Roman numerals I to C | ten thousands  one hundred thousands  powers of 10  integer | millions  ten millions |

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| **Addition and Subtraction** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| add, more, and make, sum, total, altogether  double  one more, two more … ten more how many more to make …?  how many more is … than …? how much more is …? take away how many are left/left over? how many have gone? one less, two less, ten less … how many fewer is … than …? how much less is …? | Number bonds, number line, *add, more, plus, make, sum, total, altogether,* inverse, *double,* near double, equals, is the same as (including equals sign),  addend  difference  Difference between*,* subtract, take away, minus  subtrahend  minuend | One hundred more Number facts  Tens boundary  One hundred less | Column addition  Hundreds boundary  Column subtraction  Remainder | inverse | Efficient written method  Ones boundary Tenths boundary | Order of operations |

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| **Multiplication and Division** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| Odd, even  Double,  Share,  Pair  equal  share equally Group  Equal groups | Multiplication Multiply,  multiply by, repeated addition, array, row, column, double,  unequal  Grouping  array  sharing | Groups of  Twice Once, twice, three times … ten times  Repeated addition  column multiplication table  Multiple  Divide  Division  Divided by | Multiplicand  Multiplier  Product  multiplication fact,  division fact  Dividend  Divisor  Quotient  remainder | inverse,  derive | Factor  Factor pairs,  Common factor  composite numbers,  prime number, prime factors, square number, cubed number, formal written method  Squared number  Cubed number  Remainders  Long multiplication | Long division |

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| **Algebra** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
|  |  |  |  |  |  | formulae  linear number sequences algebraically equation  unknowns combinations variables |

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| **Fractions, decimals and percentages** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| Whole  part  parts of a whole | Equal parts,  four equal parts  half  Two halves  A quarter,  two quarters | Three quarters  One third  Equivalent  equivalence | Numerator  Denominator  Unit fraction  Non-fraction  Compare  Order  tenths | Equivalent decimals and fractions  , eighth third, sixth fifth, tenth, twentieth  proportion,  in every,  for every  decimal,  decimal fraction decimal point,  decimal place  Two decimal places  Tenths  hundredths | Proper fractions  Improper fractions  Mixed numbers  percentage  ratio,  Proportion  Three decimal places,  thousandths | Degree of accuracy  Recurring decimal |

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| **Ratio and Proportion** | | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** | |
|  |  |  |  |  |  | relative size  missing values  integer multiplication percentages  scale factor  unequal sharing & grouping | |
| **Measurement - measure and length** | | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | | **Year 6** |
| Measure  Wide(er)  Narrow(er)  Compare  Long(er)(est)  Short(er)(est)  length | compare | Standard units  Estimate  Order  Record results  Centimetre cm  Metre m | Millimetre mm  perimeter | Kilometre km  Rectilinear figure  area | Decimal notation  Scaling  Metric units  Imperial units  Inches  Compound shape  Irregular shapes  Square centimetres  Square metres | | Conversion  Miles  Formulae  feet |

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| **Measurement - height, weight, capacity** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| Height  Tall(er)(est)  Short(er)(est)  Weigh(t)  Heavy/light  Heavier than  Lighter than  Big/bigger/biggest  Full/empty  More than  Less than  Half  Half full | Mass  Volume  capacity | Kilogram kg  Gram g  Quarter full  Three quarters full  Litres l  Millilitres ml  Temperature  Celsius |  |  | Cubic centimetre  Pounds  pints | Cubic metre  Cubic millimetre  Cubic kilometre  Gallons  Stones  ounces |

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| **Measurement -Time** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| Time  Quicker  Slower  Earlier  Later  Before  After  First  Next  Today  Tomorrow  Morning  Afternoon  Evening  Day  Week  Hour  minutes | Chronological order  *Days of the week*  *Months of the year*  Month  Year  O’clock  Half past  second | Intervals of time  Quarter past/to  duration | Analogue clock  Roman numerals  12-hour clock  24-hour clock  a.m/p.m  noon  midnight  leap year  digital | convert |  |  |

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| **Measurement - money** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
|  | Money  Coins  Notes  Pounds £  Pence p | Value  change |  |  |  |  |
| **Geometry – properties of shape and position/direction** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| 2-d shapes  Rectangle  oblong  Square  Circle  Triangle  Characteristics  3-d shapes  Cuboid  Cube  Cone  Sphere  Curved  Straight  ]flat  ]  Over  Under  Between  Around  Through  On  Into  Next to  Behind  Beneath  Order  Repeat  Patterns  On top of | Sides  Corners  Properties  Pyramid  Faces  Position  Direction  Movement  Whole turn  Half turn  Quarter turn  Three quarter turn | Pentagon  Hexagon  Line of symmetry  Properties  Cylinder  Edges  Vertices  Vertex  Clockwise/  Anticlockwise  Straight line  Rotation  Arrange  sequences | Right-angle triangle  Heptagon  Octagon  Polygon  Properties  Prism  Orientations’  Angle  Acute angle  Obtuse angle  Turn  Right angle  Half turn  Three quarters of a turn  Greater than a right angle  Less than a right angle  Horizontal lines  Vertical lines  Perpendicular  parallel | Isosceles  Equilateral  Scalene  Trapezium  Rhombus  Parallelogram  Kite  Geometric shapes  Quadrilaterals  Co-ordinates  First quadrant  Grid  Translation  Plot  axis | Regular polygon  Irregular polygon  Reflex angle  Degrees  One whole turn  Angles on a straight line  Angles around a point  Vertically opposite  Missing angles  Reflection | Radius  Diameter  Circumference  Dimensions  Four quadrants  Co-ordinate plane |

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| **Statistics** | | | | | | |
| **EYFS YR** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
|  |  | Pictogram  Tally chart  Block diagram  Category  Sorting  Totalling  Comparing  Horizontal  vertical | Table  Bar chart  One-step problem  Two-step problem | Time graph  Discrete data  Continuous data  Line graph  Comparison problem  Sum problem  Difference problem  Calculate  interpret | Timetable  Two-way table | Pie chart  Mean  average |