



## Key Vocabulary Progression

### Subject: Maths

This document is designed to assist with the teaching of vocabulary across KS1 and KS2 and is aligned with the NCETM mastery in maths, and White Rose schemes of learning. See separate document for Vocabulary progression in the Early Years on the maths page of the website, as well as on the foundation stage class page. This document identifies in which year group vocabulary should be explicitly taught and introduced. However, language should be revisited in subsequent year groups to ensure children are consolidating their understanding. This document is fully editable so language can be moved into earlier or later year groups where necessary. Some vocabulary might be introduced earlier (shapes for instance) if necessary or as part of an activity, however this document ensures coverage is progressive.

| Year 1   | Year 2   | Year 3  | Year 4   | Year 5   | Year 6                   |
|--|--|---|--|--|--------------------------|
| <b>Number and Place Value</b>  |  |   |  |  |                          |
| Sort<br>Represent<br>Multiples<br>Partitioning<br>Ones<br>Tens   | Count in steps<br>Count in multiples<br>Place value<br>Estimate<br>Compare<br>Hundreds | Ascending<br>Descending<br>10 or 100 more<br>10 or 100 less                 | Negative numbers<br>1000 more<br>1000 less<br>Thousands<br>Round<br>Roman numerals | Ten thousands<br>One hundred thousand<br>Powers of Integer | Millions<br>Ten millions |
| <b>Addition and Subtraction</b>  |  |   |  |  |                          |
| Addition/add<br>Subtraction<br>Difference<br>Equals<br>Facts<br>Problems<br>Missing number problems<br>2-digit number<br>Inverse | Sum<br>3-digit number<br>Commutative   | Column addition<br>Column subtraction<br>Exchange<br>Estimate<br>Operations | 4-digit number<br>Methods  |  |                          |
| <b>Multiplication and Division</b>   |  |   |  |  |                          |

|                                      |   |  |   |   |                                      |
|--------------------------------------|---|--|---|---|--------------------------------------|
| Multiplication<br>Division<br>Arrays | Multiplication tables<br>Commutative<br>Repeated addition | Exchange<br>Mathematical statements<br>Missing number problems<br>Integer scaling problems<br>Correspondence problems<br>Derived facts | Factor pairs<br>Formal written layout<br>Distributive law<br>Remainders | Multiples<br>Factors<br>Prime numbers<br>Square numbers<br>Cube numbers<br>Short division<br>Product<br>Dividend<br>Divisor<br>Quotient<br>Operations | Multi-digit numbers<br>Long division |
|--------------------------------------|---|--|---|---|--------------------------------------|

**Fractions/Decimals/Percentages**

|   |  |        |   |   |  |
|---|--|--------|---|---|--|
| Whole<br>Half<br>Quarter<br>Equal parts | Three quarters<br>Third<br>Equivalent fractions<br>Unit fractions<br>Non unit fractions<br>Numerator<br>Denominator<br>One whole | Tenths | Decimal equivalence<br>Hundredths<br>Convert<br>Proper fractions<br>Improper fractions<br>Decimal point | Fifth<br>Thousandths<br>Mixed numbers<br>Percent<br>Factors<br>Integer<br>Complements |  |
|---|--|--------|---|---|--|

**Ratio and Proportion**

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  | Relative size<br>Missing values<br>Integer multiplication<br>Percentages<br>Scale factor<br>Unequal sharing and grouping |
|--|--|--|--|--|--|

**Algebra**

|  |  |  |  |  |   |
|--|--|--|--|--|---|
|  |  |  |  |  | Formulae<br>Linear number sequences<br>Algebraically<br>Equation<br>Unknowns<br>Combinations<br>Variables |
|--|--|--|--|--|---|

**Measurement (Measure and Length)**

|         |   |                              |  |   |   |
|---------|---|------------------------------|--|---|---|
| Compare | Standard units<br>Estimate<br>Order<br>Record results<br>Centimetre (cm)<br>Metre (m) | Millimetre (mm)<br>Perimeter | Kilometre (km)<br>Rectilinear figure<br>Area | Decimal notation<br>Scaling<br>Metric units<br>Imperial units<br>Inches<br>Compound shape<br>Irregular shape<br>Square centimetre<br>Square metre | Conversion<br>Miles<br>Formulae<br>Parallelograms<br>Feet |
|---------|---|------------------------------|--|---|---|

**Height, Weight, Capacity and Temperature**

|                |  |  |  |                                     |   |
|----------------|--|--|--|-------------------------------------|---|
| Mass<br>Volume | Kilogram (kg)<br>Gram (g)<br>Quarter full<br>Three quarters full<br>Litres (l)<br>Millilitres (ml)<br>Temperature<br>Celsius |  |  | Cubic centimetre<br>Pounds<br>Pints | Cubic metre<br>Cubic millimetre<br>Cubic kilometre<br>Gallons<br>Stones<br>Ounces |
|----------------|--|--|--|-------------------------------------|---|

**Time**

|  |  |  |         |  |  |
|--|--|--|---------|--|--|
| Chronological order<br>Days of the week<br>Months of the year<br>Month | Intervals of time<br>Quarter past/to<br>Duration | Analogue clock<br>Roman numerals<br>12-hour clock<br>24-hour clock | Convert |  |  |
|--|--|--|---------|--|--|

|  |  |   |  |  |  |
|--|--|---|--|--|--|
| Year<br>O'clock<br>Half past<br>Second |  | AM/PM<br>Noon<br>Midnight<br>Leap year<br>Digital |  |  |  |
| <b>Money</b>                           |  |   |  |  |  |
| Value<br>Change                        |  |   |  |  |  |

|   |  |   |  |   |   |
|---|--|---|--|---|---|
| <b>Geometry- Properties of Shape</b>                            |  |   |  |   |   |
| Sides<br>Corners<br>Properties<br>Pyramids<br>Faces             | Pentagon<br>Hexagon<br>Line of symmetry<br>Properties<br>Cylinder<br>Edges<br>Vertices<br>Vertex | Right-angle triangle<br>Heptagon<br>Octagon<br>Polygon<br>Properties<br>Prism<br>Orientations<br>Angles<br>Acute angle<br>Obtuse angle<br>Turn<br>Right angle<br>Half turn<br>Three quarters of a turn<br>Horizontal lines<br>Vertical lines<br>Perpendicular lines<br>Parallel lines | Isosceles<br>Equilateral<br>Scalene<br>Trapezium<br>Rhombus<br>Parallelogram<br>Kite<br>Geometric shapes<br>Quadrilaterals | Regular polygon<br>Irregular polygon<br>Reflex angles<br>Degrees<br>One whole turn<br>Angles on straight line<br>Angles around a point<br>Vertically opposite<br>Missing angles | Radius<br>Diameter<br>Circumference<br>Dimensions |
| <b>Position and Direction</b>                                   |  |   |  |   |   |
| Position<br>Direction<br>Movement<br>Whole turn<br>Quarter turn | Clockwise/anti-clockwise<br>Straight line<br>Rotation<br>Arrange<br>Sequences                    |   | Co-ordinates<br>First quadrant<br>Grid<br>Translation<br>Plot  | Reflection  | Four quadrants<br>Co-ordinate plane               |

|                                 |  |  |                 |  |  |
|---------------------------------|--|--|-----------------|--|--|
| Half turn<br>Three-quarter turn |  |  | Polygon<br>Axis |  |  |
|---------------------------------|--|--|-----------------|--|--|

**Statistics**

|  |   |  |   |                             |                   |
|--|---|--|---|-----------------------------|-------------------|
|  | Pictograms<br>Tally chart<br>Block diagram<br>Category<br>Sorting<br>Totalling<br>Comparing<br>Horizontal<br>Vertical | Table<br>Bar chart<br>One step problem<br>Two step problem | Time graph<br>Discrete data<br>Continuous data<br>Line graph<br>Comparison problem<br>Sum problem<br>Difference problem<br>Calculate<br>Interpret | Timetable<br>Two way tables | Pie chart<br>Mean |
|--|---|--|---|-----------------------------|-------------------|