Vocabulary for Mathematics

At Emmer Green, we use vocabulary development to enhance the children's understand whilst widening their vocabulary knowledge. The following vocabulary is taught as part of the associated topic so that the children can explain their meaning. The year group's vocabulary is displayed at the back of children's maths books and is revisited and built upon with the use of knowledge organisers also.

Reception

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape (Geometry)	Position and Direction (Geometry)
One more One less Greater than Less than Place Order Number Count One,two,three… twenty Number line Answer Equals Odd Even	Add Subtract Addition Subtraction Adding Subtracting Plus Number Number line Single digit Double digit Count on Count back Doubling Halving Sharing Check	Lots of Sets of Groups of Doubling Halving Sharing	Halving	Measure Measurement Length Size Weight Capacity Compare Solve Problems Object Time	Shape Square Rectangle Circle Triangle Sides Straight side Curved side Flat	Position Distance Direction Move Movement Patterns

Year 1

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape (Geometry)	Position and Direction (Geometry)
One more One less Place Order Count Number line One,two,three… twenty Pictorial Answer Forwards Backwards Numerals Greater/More than Less than Most/Least Odd Even	Add Total Sum of Altogether Plus Subtract Take away Number Bond Number facts One step problem Missing number Problem Equals = Equal to Signs One-digit Two-digit Ones Tens Mental Method Mentally	Multiples Twos Fives Tens Multiply Divide Multiplication Division Lots of Sets of Groups of Multiplied by times One step problem Answer Arrays Count Equals Write	Fraction Half Equal parts One whole Part(s) of a whole Object Shape Quantity Quarter	Length Height Long Short Longer Shorter Tall Double Half Mass Heavy Light Heavier than Lighter than Volume Full Empty More than Less than Half Half full Quarter Quicker Slower Earlier Later Sequence events Chronological order Before After	2-D Shapes 3-D Shapes Two- Dimensional Three- Dimensional Cuboid Cube Pyramid Cone Cylinder Sphere	Whole turn Half turn Quarter turn Three-quarter turn Left Right Up Down Clockwise On top of In front of Above/below Top/middle/bottom Forward/backwards Inside/outside

Year 2

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape (Geometry)	Position and Direction (Geometry)	Statistics
Ones Tens Hundreds One-digit Two- digit Three-digit Estimate Place Value Solve problems Greater than >** Less than < Nearest ten Number facts Number bonds Number line Partition Count in steps Zero Compare Value Order	Add Total Sum of Altogether Plus Increase Number line Column addition Column subtraction Take away Difference Order Inverse Relationship Calculation Solve problems Missing number problems Quantities Measures Formal Written method Mental method Mentally Operation Whole number Estimate	Lots of Sets of Groups of Group Times Multiplication facts Division facts Multiplication tables Odd numbers Even numbers Share Shared between Equally Repeated division Calculate	Simple fractions Equivalent equivalence Count half Quarter Three-quarters	Greater than >** Less than < Equals = Intervals Standard units Estimate Direction Temperature Unit Scales Rulers Thermometers Measuring Capacity Vessels Metres Centimetres Kilograms Grams Degrees Celsius Litres Millilitres Symbols Money Pounds (£) Pence (p) Change Half past Five past Quarter past Quarter to	Properties Compare Common Line symmetry Vertical line Edges Faces Vertices Pentagon Hexagon Heptagon Octagon Nonagon Decagon Sides Corners	Rotation Right angle Clockwise Anti-clockwise Order Arrange Sequence	Interpret Construct Pictogram Tally chart Block diagrams Horizontal Vertical x- axis y-axis key title chart title Simple tables Ask Answer Questions Counting Objects Category Sort Quantity Total Compare Data

Year 3

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape (Geometry)	Statistics
Hundreds Three-digit ten more one hundred more ten less one hundred less Roman numeral Thousand	Addition Total Sum of Plus Altogether Increase Subtract Minus Take away Find the difference How many more Hundreds Estimate Number facts	Lots of Sets of Groups of Multiplied by Product Times Divide Missing number problem Estimate Inverse Formal written method Recall Integer	Tenths Unit fractions Non- unit fractions Numerator Denominator Compare Order Add Subtract Solve problems Equivalent whole	Duration Time taken Nearest minute Record Seconds a.m. p.m. noon midnight kilometre add subtract millimetres perimeter simple 2-D shapes analogue clock roman numerals 12-hour 24-hour Leap year Lengths Mass Volume Capacity	Angle Turn Right angles Quarter of a turn Half-turn Three quarters of a turn Complete turn Horizontal lines Vertical lines Perpendicular lines Parallel lines	Present Presented Graph Statistics Bar charts Tables Solve One- step questions Two- step questions Information

Year 4

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape (Geometry)	Position and Direction (Geometry)	Statistics	Algebra
Thousands Four- digit Negative number One thousand more One thousand less Decimal Decimal place Rounding Place holder Nearest ten Nearest hundred Nearest thousand One place Whole number Integer Tenths Hundredths Roman numerals	Addition Total Sum of Plus Altogether Increase Subtract Minus Take away Find the difference How many more Two-step problems	Lots of Sets of Groups of Multiplied by Product Times Divide Shared between Multiples Derived facts Factors Factor pairs Scaling problems Three-digit	Hundredths Decimal Decimal place One decimal place Two decimal places Round decimals Whole number Common equivalent fractions Decimal equivalents Dividing Ones Tenths Hundredths Simple measure Pounds Pence	Estimate Rectilinear figure Area Rectilinear shapes Convert Analogue Digital	Lines of symmetry Symmetric figure Classify Geometric shapes Quadrilaterals Acute angle Obtuse angle Isosceles Equilateral Scalene Quadrilateral Protractor	Co-ordinates Quadrant Grid Translate Translation Axis X- axis Y-axis Spaces Unit Plot Point Polygon	Time graphs Comparison Problems Scale	Perimeter Algebra Algebraically

Year 5

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape (Geometry)	Position and Direction (Geometry)	Statistics	Algebra
Ten thousands Hundred thousands Millions Context Steps of powers Decimal equivalents Two decimal places Thousandths One million Positive Negative	Five digits Rounding Determine Context Multi-step problems Accuracy	Decimals Four-digit Long multiplication Product Short division Remainders Context Common factors Common multiples Factor pair Prime numbers Prime factors Composite numbers Square number Cube number Notation	Thousandths Multiples Three decimal places Per cent Number of parts per hundred Percentages Decimal fraction Mixed numbers Improper fraction Proper fraction Convert Mathematical statements Multiply Percentage and decimal equivalents	Square centimetres (cm2) Square metres (m2) Irregular shapes Volume (cm3) Cubes Cuboids Square numbers Cube numbers Metric measure Metric units Imperial units Inches Pounds Pints Scaling	Angles Measure Degrees Missing lengths Missing angles Regular polygons Irregular polygons Degrees Estimate compare Reflex angle Point Straight line Multiples	Reflection Straight line Whole turn Regular Irregular Polygons Translation	Timetables Line graph Interpret	Properties Rectangles Deduce Related facts Missing lengths Missing angles

Year 6

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape (Geometry)	Position and Direction (Geometry)	Statistics	Algebra	Ratio and Proportion
Intervals across zero Three decimal places Hundredths Thousandths Ten thousandths Ten million	Estimation Mixed operations	Scale factor Long division Whole number remainders Fractions Rounding Mixed operations Common factors Common multiples	Decimal fraction equivalents Simplest form	Decimal notation Cubic centimetres (cm3) Cubic metres (m3) Cubic millimetre (mm3) Cubic kilometre (Km3) Decimal places Formulae Miles Parallelogram Area Perimeter Convert	Radius Diameter Circumference Nets	Four quadrants Translate Reflect	Pie chart Calculate Mean Average	Missing number Problem Pairs Number sentence Variables Combination Possibility Enumerate Equation Formulae Generate Linear number sequence	Ratio Proportion Size Quantity Missing value Integer Percentage Comparison Unequal sharing Grouping Fractions Multiples