



# Spring Vale Primary School

## Mathematics Vocabulary Progression

National Curriculum 2014

Our vocabulary progression document outlines the **new vocabulary** that will be taught in each year group from Year 1 to Year 6.

### "Spoken language

The national curriculum for mathematics reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially and linguistically. The quality and variety of language that pupils hear and speak are key factors in developing their mathematical vocabulary and presenting a mathematical justification, argument or proof. They must be assisted in making their thinking clear to themselves as well as others and teachers should ensure that pupils build secure foundations by using discussion to probe and remedy their misconceptions." *National Curriculum in England, Department for Education, 2013.*



# Mathematics Vocabulary

## Year One



Number and Place Value	Addition and Subtraction	Multiplication and Division	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions	General Language / 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 Pair Units, ones, tens Ten more/less Digit Numeral Figure(s) Compare Size Value Between, halfway between Above, below	Number bonds Number line Add, more, plus, make, sum, total, altogether Inverse Double Half, halve Equals, is the same as (including equals sign) Difference between How many more to make...? How many more is...than...? How much more is...? Subtract, take away, minus How many fewer is...than...? How much less is...?	Odd, even Count in twos, threes, fives Count in tens Forwards, from, backwards How many times? Lots of, groups of Once, twice, three times, five times Multiple of times, multiply, multiply by Repeated addition Array, row, column Commutative Double, halve Share, share equally Group in pairs, threes, etc. Equal groups of Divide, divided by, left, left over	Always, never, often, sometimes, usually Once, twice First, second, third, etc. Estimate, close to about the 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 How much? How many? Money, coin, penny, pence, pound, pise, cost, buy, sell, spend, spent, pay, change, costs more, costs less, cheaper, costs the same as	Position, Over, under, underneath, above, below, top, bottom, side On, in, outside, inside around, in front, behind Front, back Before, after Beside, opposite Apart Between, middle, edge, centre Corner Direction left, right, up, down, forwards, backwards, sideways across close, far, near along, though, to, from, towards, away from movement slide, roll, turn, whole turn, half turn stretch, bend	Group, sort Cube, cuboids, pyramid, sphere, cone, cylinder, circle, triangle, triangle, square Shape Flat, curved, straight, round Hollow, solid Corner (point, pointed) Face, side, edge Make, build, draw	Whole Half a length, quantity, set of objects, shape Equal parts, four equal parts One half, two halves A quarter, two quarters	Cost Count, work out, answer, check same number / different number / missing number Number facts, number line, number track, number square, number cards Abacus, counters, cubes, blocks, rods, die, dice, dominoes, peg boards, pegs Same way, different way, best way, another way In order, in a different order, not all, every, each



# Mathematics Vocabulary

Year Two – In addition to the Year One Vocabulary



Number and Place Value	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions	Data / Statistics	General Language / Problem Solving
Numbers to on 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 Mirror line, reflection Pattern, representing pattern	Three quarters, one third, a third Equivalence, equivalent	Count, tally sort Vote Graph, block graph, pictogram Represent Group, set, list, table Label, title Most popular, most common, least popular, least common	Predict Describe the pattern, describe the rule Find, find all, find different investigate



# Mathematics Vocabulary

Year Three



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	Multiple	Leap year	Greater/less than	Horizontal lines	Numerator	Chart
Eights, fifties	Add	Factor	Twelve-hour	Ninety degrees angle ... is a greater/smaller angle than	Vertical lines	Denominator	Bar chart
Hundreds	More	Groups of	Twenty-four-hour clock	Orientation (same orientation, different orientation)	Perpendicular lines	Unit fraction	Frequency table
Factor of relationship	Make	Product	a.m./p.m.	Compass point	Parallel lines	Non-unit fraction	Carroll diagram
Roman Numerals	Sum	Multiples of four, eight, fifty and one hundred	Roman numerals I to XIII	North, south, east, west, N, S, E, W	Perimeter	Compare and order	Venn diagram
One hundred more	Total	Scale up	Millimetre	Horizontal	Pentagonal	Tenths	Axis
One hundred less	Altogether	Grouping	Kilometre	Vertical	Hexagonal	Sixths, sevenths, eighths ...	Axes
Approximately/approximate	Difference	remainder	Mile	diagonal	Hexagonal		Diagram
Round	Between		Distance apart...between ...to...from		Octagon		Most popular
Nearest	Equals		Perimeter		Octagonal		Least popular
Round to the nearest ten, hundred	Is the same as		Centigrade		Quadrilateral		
Round up, round down	Number bonds/pairs/facts		Century		Right-angled		
Greatest value	Missing number		Calendar		Prism		
Least value	Tens boundary		Earliest/latest		Triangular prism		
	Hundreds boundary				hemisphere		



# Mathematics Vocabulary

Year Four



Number and Place Value	Multiplication and Division	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions and Decimals	Data/Statistics	
Ten thousand	Multiplication facts (up to 12x12)	Unit	Coordinates	Quadrilaterals	Tenths	Continuous data	
Hundred thousand	Division facts	Standard unit	Translation	Triangles	Hundredths	Line graph	
Million	Inverse	Convert	Quadrant	Right angle	Decimal	Survey	
Tenths	Factors	Area	x-axis	Acute and obtuse angles	Decimal fraction	questionnaire	
Hundredths	Square	Covers	y-axis	Construct	Decimal point		
Decimal (places)	squared	Square centimetre (cm <sup>2</sup> )	Perimeter	Sketch	Decimal place		
Round (to nearest)		Mass: big, bigger, small, smaller	Area	Right-angled	Decimal equivalent		
Thousand more/less than		Weight: heavy/light, heavier/lighter, heaviest/lightest	North-east	Reflect/reflection	proportion		
Integer		Measuring cylinder	North-west	Regular/irregular			
Positive		Noon	South-east	Rectilinear			
Negative		Millennium	South-west	Heptagon			
Above/below zero		Leap year	NE, NW, SE, SW	2 dimensional			
Minus			Rotate	3 dimensional			
Negative numbers			Rotation	Spherical			
Count through zero			reflection	Symmetry			
Roman numbers (I to C)				polygon			



# Mathematics Vocabulary

Year Five



Number and Place Value	Addition and Subtraction	Multiplication and Division	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions, Decimals and Percentages	Data/Statistics
Ten thousand	Efficient written method	Factor pairs	Volume	Reflex angle	Regular and irregular polygons	Proper fractions	Line graph
Powers of 10	Ones boundary	Composite numbers	Imperial units	Dimensions ruler	Equilateral triangle	Improper fractions	Bar chart
Factor pair	Tens boundary	Prime number	Pint	Set square	Isosceles triangle	Mixed numbers	Maximum/minimum value
Formula		Prime factors	Gallon	Protractor	Scalene triangle	Equivalent to	outcome
Divisibility		Square number	Metric units	Angle measurer	Parallelogram	Cancel	
Square number		Cubed number	Square metre (m <sup>2</sup> )	Coordinate	Rhombus	Thousandths	
Prime number		Formal written method	Square millimetre (mm <sup>2</sup> )	x-axis	Trapezium	Percentage %	
Ascending/descending order		Long multiplication		y-axis	Polygon	Half, quarter, fifth, two fifths, four fifths	
Interpret negative numbers				quadrant	Acute angle	Ratio	
				straight line	Obtuse angle	proportion	
				angles at a point	degrees		
				four quadrants			



# Mathematics Vocabulary

Year Six



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 Round to required degree of accuracy	Order of operations BODMAS	Order of operations Common factors Common multiples Long division Decimal remainder	Four quadrants (for coordinates)	Vertically opposite (angles) Reflex angle Net – open/closed Circumference Radius Diameter Parallelogram Rhombus Trapezium Polygon	Degree of accuracy Simplify Ratio Scale factor	Linear number sequence Substitute Variables Symbol Known values Formulae Equation Unknown	Mean Pie chart construct