Mathematics vocabulary list

Maths is its own language. Sometimes that language looks like written word and sometimes it looks like symbols, but it is a language, and it must be learnt for math fluency and for deepening understanding and reasoning. If your child does not have a good understanding of key mathematical vocabulary, it can hinder them in making good progress in maths and other areas of the curriculum. At Marcham, Primary School, we explicitly teach maths vocabulary, giving it a context and allowing children to apply it in a variety of ways and to a variety of problems.

Number and Place Value						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Zero one Number One,two three… to twenty (beyond as well) None Count Count up to Count on (from, to) Count back (from, to) Is the same as More, larger, bigger Less, smaller, smallest Pattern Pair Order, size First, second, third, last Before, after, next Between Too many, too few Enough, not enough Above below	Numeral Numbers to 100 Forwards, backwards Count in 2s, 10s Equal to Most ,least Odd, even Ones, tens Digit Greater, biggest, greatest, largest Fewer, fewest One more/less Ten more/less Compare Nearly Continue Partitioning	Count in fives, threes Equivalent to Sequence < > Hundreds One, two digit number Stands for/represents Estimate compare	Numbers to 1000 Count in 4s, 8s, 50s and 100s Rule Relationship Roman numerals Three digit number One hundred more One hundred less	Count in sixes, sevens, nines, 25s Thousands Consecutive Integer, positive, negative Above/below zero Negative number Four digit number	≤ less than or equal to ≥ greater than or equal to Square number Ascending/descending order Numbers to million Five digit number Prime number	Formula Digit total

Addition and subtraction						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Make Add + - Altogether How many more to make… ? Take away How many left? How many have gone?	Addition Sum Total Double Half One more Ten more Subtract One less Ten less Difference between minus How many fewer? How many more to make? Equals Number bonds Missing number Number line	Near double Difference between Tens boundary Inverse Commutative	Hundreds boundary Column addition Column subtraction Exchange Operations	Tenths boundary Rounding		

Multiplication and division						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Sharing Pattern Group	Multiply (by) Multiplication Division Dividing Doubling double Halving halve Array Share equally Twice Group in pairs	Commutative Repeated addition Multiplication tables Three times, five times Divided by/into Equal groups of Multiplication fact Division fact Inverse	Multiples Left over Remainder Derived facts Scaling problems Correspondence problems Grid method	Product Factor pairs Distributive law Associative law Short multiplication	Prime factors Composite numbers Long multiplication short division Squared number Cubed number	Dividend Divisor

Fractions/decimals and percentages						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Fractions Whole Part of a whole Equal part Half One of two equal parts Quarter One of four equal parts	Equivalent fraction Equivalence Numerator Denominator Two quarters Three quarters One third Two thirds	Unit fraction Non unit fraction Sixths sevenths Tenths	Equivalent decimals and fractions Hundredths Decimal Decimal point Decimal place Decimal fraction	Proper fractions Improper fractions Mixed numbers Percentages % / per cent Proportion – in every, for every	Degree of accuracy Simplify ratio

Measurement						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measure Size Compare Enough / not enough Too much /too little Too many/ too few Nearly, close to Just over /just under Length, height Long/ tall/ short High/low Wide/narrow Thick /thin Longer/shorter /taller etc Longest/shortest/tallest etc Weigh Balances Heavy/light (er and est) Scales Full/empty Holds Container Time e.g. bedtime snack time Days of the week/weekend Birthday/ holiday Morning/afternoon/evening/night Today/yesterday/tomorrow Before/after Next/last	Measurement Seasons Months Year Takes longer/takes less time O'clock Half past Hands (clock) How long will it be? Always/never/often sometimes/usually once twice first/second etc deep /shallow metre stick centimetre ruler depth penny/pence/pound price/cost spend/spent pay /change costs more/less cheaper	Quarter past/to 5/10 etc minutes past Grams/ kilograms Millimetres Litres /half litre Temperature Degrees Measuring scale Tape measure Capacity Digital/analogue Hour/minutes/seconds	Leap year Twelve hour/twenty four hour clock Am/pm midnight Roman numeral 1 to XII volume	Convert Timetable Arrive depart	Discount Currency Imperial units Metric units Square centimetres/metres etc Cubic centimetres/metres etc degree	Profit/loss GMT/BST/IDL

Now/soon/early/late Quick/ slow (er/est/ly) Old/ new (er/est) Clock Hour Watch Money Coin Buy /sell						

Geometry – properties of shape						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Shape Flat Curves/straight/round Hollow/solid Sort Make/build/draw Size Pattern Corner/side Rectangle Square Triangle Circle	2D /3D Pyramid Sphere Cone Cube cuboid cylinder	Face Edge Vertex/vertices Rectangular Circular Triangular Pentagon Hexagon Octagon Face/edge/vertex/vertices Symmetry/line of symmetry/symmetrical Mirror line Reflection Repeating pattern	Horizontal Perpendicular and parallel lines Pentagonal Hexagonal Octagonal Right angled Hemisphere Prism	Quadrilaterals Acute angle Obtuse angle Construct Regular Irregular Equilateral triangle Isosceles/scalene Parallelogram Rhombus Trapezium Rectilinear	Axis of symmetry Reflective symmetry Polygon	Vertically opposite angles Circumference Radius Diameter Net- open/closed

Geometry – Position and direction						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Position Over/under Above/below Top/bottom/side In front/behind Front/back Beside/next to Opposite Between Middle Direction Left/right Up/down Forwards/backwards/sideways Across Along Through Towards Movement Slide/roll/turn Stretch/bend Whole turn Close/near/far	Before/after Edge Centre Corner Journey Half turn Underneath Around	Route Clockwise Anticlockwise Quarter turn Three quarter turn Straight line Rotation	Ninety degrees (greater /less than) Same orientation Different orientation Compass point NSEW(north etc) Vertical Diagonal	Perimeter Area Coordinates Translate X axis Y axis NE NW etc compass	Reflex angle Dimensions degree	Four quadrants

Statistics						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	(not an explicit area of the curriculum) Sort Group Set list	Count Tally Sort Vote Graph Block graph Pictogram Represent Table Label Title Most popular/common Least popular/common	Chart Bar chart Frequency table Carroll diagram Venn diagram axis	Survey Data Questionnaire	Database Line graph Maximum/minimum value	Mean Pie chart construct

Year 6 Algebra
Formula Formulae Equation Unknown/known value Variable Linear number sequence Substitute Symbol

Problem solving and reasoning						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Puzzle What could we try next How did you work that out Describe Draw Sort Compare	Change, change over, split, separate, carry on, continue, repeat, what comes next?, find, choose, collect, use, make, build Tell me, describe, pick out, talk about, explain, show me, read, write, record, trace, copy, complete, finish, end, fill in, shade, colour, tick, cross, draw, draw a line between, join (up), ring, arrow Cost, count, work out, answer, check same number(s)/different number(s)/missing number(s) Number facts, number line, number track,	Predict, describe the pattern, describe the rule, find, find all, find different, investigate	Mentally Show how you… Explain your thinking Explain your method Justify Make a statement	Explain your reasoning		

	number square, number cards, abacus, counters, cubes, blocks, rods, die, dice, dominoes, pegs, peg board Same way, different way, best way, another way, in order, in a different order, not all, every, each					