Share Try Aspire Respect Shine

Progression of Vocabulary for Maths

Children across the school will develop their ability to read and write mathematical vocabulary throughout the studying of each topic across every year group. New vocabulary is introduced in line with our Progression of Skills and Knowledge which can be found on our website. The amount and level of vocabulary increases as they travel through the school and this goes hand in hand with their increasing reading and spelling knowledge (*please see the Reading and Spellings Progression for more information*).

In the table below, you will find key vocabulary used within Maths lessons and during the school day. By the end of each year or key stage, children should be able to understand and use these key words in their explanations within their books and through discussions.

Grey boxes indicate where there is no National Curriculum coverage. Some year groups still have new vocabulary in these boxes. These are words that are introduced in other topics and they are later linked to their new learning in the correct year group.

Topics	Early Years Foundation Stage	Key Stage 1		Lower Key Stage 2		Upper Key Stage 2	
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number: Number and Place Value	zero number numbers: one to twenty none how many…? count count on count to count back count in ones, twos, fives, tens …is the same as … more less odd even few fewer pattern pair equal ones tens the same number as as many as larger bigger largest	**All vocabulary from previous year plus:** numeral digit twenty-one to one hundred count in twos, fives forwards backwards equal to most least many multiple of greater than less than above below more than less than roughly identify represent calculate	**All vocabulary from previous years plus:** two hundred to nine hundred count in threes count in steps tally equivalent to sequence continue predict hundreds one-, two- or three-digit number place place value stands for represents exchange twenty-first, twenty-second… nearest ten partition half-way between exact	**All vocabulary from previous years plus:** count in fours, eighths, fifties and so on to hundreds factor of relationship Roman numerals one hundred more one hundred less approximate approximately round nearest round to the nearest ten, hundred round up round down rounding	**All vocabulary from previous years plus:** ten thousand to million count in sizes, sevens, nines, twenty-fives next consecutive integer positive negative above/below zero minus negative numbers four-digit number negative number whole number one thousand more one thousand less round to the nearest thousand place holder determine	**All vocabulary from previous years plus:** factor pair ≥ greater than or equal to ≤ less than or equal to square number prime number prime factor ascending/descending order round to the nearest ten thousand context	**All vocabulary from previous years plus:** factorise digit total

	greatest compare order size first, second etc to tenth last before after next between guess how many…? estimate nearly close to about the same as just over just under too many too few number line pictorial		exactly number facts value				
Number: Addition and Subtraction	Add addition and make total altogether total altogether difference double one more, two more to five more how many more to make..? how many more is … than …? take away one less, two less to five less how many fewer is…than…? how much less is…? difference between	sum half halve subtract equals is the same as number bonds/pairs missing number	one hundred more one hundred less facts ten more ten less tens boundary	hundreds boundary	inverse one thousand more one thousand less	ones boundary tenths boundary	*No new vocabulary*
Number: Multiplication and Division	sharing doubling halving number patterns	multiplication multiply multiplied by multiple division dividing grouping array	groups of times once, twice, three times to ten times repeated addition divide divided by divided into share share equally	factor product remainder multiplication table	inverse square squared	cube cubed	*No new vocabulary*

			left left over one each, two each to ten each group in pairs, three to tens equal groups of row column multiplication fact division fact recall				
Number: Fractions	parts of a whole half	Fraction equal part equal grouping equal sharing one of two equal parts one of four equal parts quarter	numerator denominator two halves two quarter three quarters one third two thirds one of three equal parts	sixths, sevenths, eighths, tenths… equivalent fraction	hundredths mixed number	proper/improper fraction equivalent reduced to cancel thousandths	*No new vocabulary*
Number: Decimals					decimal decimal fraction decimal point decimal place decimal equivalent	two decimal place	*No new vocabulary*
Number: Percentages						percentage per cent %	*No new vocabulary*
Measurement: Length/Height, Mass/Weight, Volume/Capacity	measure size compare guess estimate enough not enough too much too little too many too few nearly close to about the same as metre length height long short tall wide	measurement roughly ruler metre stick length weight capacity volume more than less than half full quarter full empty	measuring scale centimetre further furthest kilogram half kilogram gram millilitre litre half litre contains temperature degree	division approximately millimetre, kilometre, mile distance apart, between, to, from perimeter width depth tape measure centigrade	unit standard unit metric unit edge area covers square centimetre (cm2) measuring cylinder	imperial unit square metre square millimetre (mm2) pint gallon	yard foot feet inch inches circumference tone pound ounce centilitre cubic centimetres (cm3) cubic metres (m3) cubic millimetres (mm3) cubic kilometres (km3)

	narrow thick thin longer shorter taller higher longest shortest tallest highest far near close weigh/s balances heavy light heavier than lighter than heaviest lightest scales full empty half full holds container distance						
Measurement: Time	time days of the week - Monday… day week birthday holiday morning afternoon evening night bedtime dinner time playtime today yesterday tomorrow before after next last	months of the year (January, February,...) seasons: spring, summer, autumn, winter weekend month year earlier later first midnight date how long ago? how long will it be to…? how long will it take to…? how often? always never often sometimes usually	fortnight 5, 10, 15…minutes past digital clock analogue clock watch timer seconds	century calendar earliest latest am pm Roman numerals 12-hour clock time 24-hour clock time	leap year millennium noon date of birth timetable arrive depart	*No new vocabulary*	Greenwich Mean Time British Summer Time International Date Line

	now soon early late quick quicker quickest quickly slow slower slowest slowly old, older, oldest new, newer, newest takes longer takes less time hour o'clock clock watch hands	once twice half past quarter past quarter to clock face hour hand minute hand hours minutes earlier later					
Measurement: Money	money coin penny, pence, pound, price cost buy sell spend spent pay	change costs more cheap costs less cheaper costs the same as how much…? how many…? total	bought sold	*No new vocabulary*	*No new vocabulary*	discount currency	profit loss
Geometry: Properties of shapes	shape pattern repeating pattern flat curved straight round solid sort make build draw size bigger, larger, smaller symmetrical 2D shape corner side rectangle, square triangle	symmetry symmetrical pattern point pointed	line symmetry rectangular circular triangular pentagon hexagon octagon	perimeter pentagonal hexagonal octagonal quadrilateral right-angled parallel perpendicular surface hemisphere prism triangular prism	line construct sketch centre angle right-angled base square-based reflect reflection regular irregular two dimensional oblong rectilinear equilateral triangle isosceles triangle scalene triangle heptagon parallelogram	radius diameter congruent axis of symmetry reflective symmetry x-axis y-axis quadrant octahedron	circumference net open closed intersecting intersection plane dodecahedron net open closed

	circle 3D shape face edge vertex vertices cube pyramid sphere cone cuboid cylinder curved surface				rhombus trapezium polygon three dimensional spherical cylindrical tetrahedron polyhedron		
Geometry: Position and direction	position over under above below top bottom side on in outside inside around in front behind front back beside next to opposite apart between middle edge corner direction left right up down forwards backwards sideways across next to close near	underneath centre quarter turn three-quarter turn	higher lower clockwise anticlockwise straight line journey	route right angle compass point north, south, east, west, N, S, E, W horizontal vertical diagonal angle… is greater/smaller than acute angle obtuse angle	north-east, north-west, south-east, south-west, NE, NW, SE, SW translate translation rotate rotation degree reflection ruler angle measurer compass	coordinate protractor reflex angle	*No new vocabulary*

	far along through to from towards away from movement side roll turn stretch bend whole turn half turn						
Statistics	count sort group set list	vote table	statistics tally graph block graph? pictogram represent label title most popular most common least popular least common	chart bar chart frequency table Carroll diagram venn diagram axis axes diagram	survey questionnaire data	database bar line chart line graph maximum/minimum value outcome	pie chart mean, mode, median, range as estimates distribution
Ratio and Proportions					proportion	in every for every	ratio
Algebra				unknown		formula	formulae equation variable
General	number sentence puzzle what could we try next? how did you work it out? recognise describe draw compare sort	calculation problem solving mental mentally explain your thinking	show how you… explain your method describe the pattern describe the rule investigate mental calculation written calculation solve	equations greatest value least value statement	justify make a statement	explain your reasoning	*No new vocabulary*