



Progression of Maths Vocabulary

This document sets out Key Stage 1 (KS1) maths vocabulary under the National Curriculum as well as vocabulary for EYFS. The tables can be used to check pupils' understanding of new vocabulary. The lists are intended as a guide as to what pupils should know, and are not exhaustive.

How do children develop their understanding of mathematical vocabulary?

A structured approach to the teaching and learning of vocabulary is essential if children are to move on and begin using the correct mathematical terminology as soon as possible. Students need to meet a word between four and ten times before they internalise it. Sentence stems, taken from the White Rose maths scheme and the Mastering Number programme are also used to further support children's mathematical language and to develop their reasoning skills.

Talk, talk, talk

Many of our anchor tasks are designed to be the basis of classroom discussion. The more often students get to engage in mathematical discourse, the quicker their understanding of Tier 2 and 3 words will grow.

Then listen

Listening to students' discussion is a powerful assessment for learning tool, enabling teachers to really understand what students know and don't know about a topic.

The more opportunities we create for mathematical talk, the more chances there are for students to get to grips with mathematical language concepts, and the better their learning will be.

It is expected that key vocabulary and stem sentences are displayed on teaching slides and also Maths Learning Walls at appropriate times during the academic year and in line with the current topic being taught within the class and is promoted through mathematical talk in lessons.

Strand	Birth to 3 year olds	New vocab to 3 & 4 year olds	New vocab to Reception	New vocab to Year 1	New vocab to Year 2
Number	'lots', 'more' or 'same'. Number zero...five	Numbers zero - ten	Numbers zero – twenty and beyond 'more than', 'less than', 'fewer', 'the same as', 'equal to' one more than/one less than' none how many...? count, count (up) to count on (from, to) count back (from, to) count in ones, twos... tens... more, less, many, few odd, even every other how many times? pattern, pair guess how many, estimate nearly, close to, about the same as	zero, ten, twenty... one hundred count in ones, twos... tens... more, less, many, few odd, even every other how many times? pattern, pair	zero, one hundred, two hundred... one thousand count in ones, twos, threes, fives... tally multiple of sequence continue predict rule

			just over, just under too many, too few, enough, not enough		
Place Value			digit numeral compare order size value between, halfway between	ones tens exchange 'teens' number the same number as, as many as equal to greater, more, larger, bigger less, fewer, smaller greatest, most, biggest, largest least, fewest, smallest one more, ten more one less, ten less compare order size first, second, third... tenth, eleventh... twentieth last, last but one before, after next between, half-way between above, below	hundreds one-, two- or three-digit number place, place value stands for, represents exchange twenty-first, twenty-second...
Addition & Subtraction			add, more, and make, sum, total altogether score double one more, two more, ten more... how many more to make... ? how many more is... than...? take (away), leave how many are left/left over? how many have gone? one less, two less... ten less... how many fewer	+, plus, make, sum, total altogether score double, near double one more, two more... ten more	addition, one hundred more

			<p>is... than...? difference between is the same as</p> <p>Subtract, take away, minus.</p>	<p>how many more to make...? how many more is... than...? how much more is...?</p> <p>–, leave how many are left/left over? how many have gone?</p> <p>one less, two less, ten less... how many fewer is... than...?</p> <p>how much less is...? difference between half, halve =, equals, sign, is the same a</p>	<p>Subtraction</p> <p>one hundred less</p> <p>tens boundary</p>
Multiplication & Division			<p>Odd, even Double, halve</p> <p>Share, share equally Group in pairs Equal groups of Divide</p>	<p>Once, twice, three times. Five times. Count in tens (forwards from/ backwards from) How many times?</p> <p>Lots of, groups of Multiple of, times, multiply, multiply by Repeated addition Array, row, column</p> <p>Group in twos, threes, etc Divided by, left, left over</p>	<p>×, multiplied by multiple of once, twice, three times... ten times</p> <p>... times as (big, long, wide... and so on) repeated addition array row, column</p> <p>share equally one each, two each, three each... group in pairs, threes... tens equal groups of ÷, divide, divided by, divided into</p>

Fractions			whole equal one half part	Equal parts, four equal parts Two halves A quarter, two quarters Half, halves	part, equal parts fraction one whole one half, two halves one quarter, two... three... four quarters
Money			money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay, change How much? How many? Total	dear, costs more cheap, costs less, cheaper costs the same as how much...? how many...? Total	£ bought sold
Length	'bigger/little/smaller', 'high/low', 'tall', 'heavy'.	more than', 'fewer than'. exactly	'than' length, width, height, depth long, short, tall high, low wide, narrow deep, shallow thick, thin longer, shorter, taller, higher... and so on longest, shortest, tallest, highest... and so on far, near, close	metre ruler, metre stick	further, furthest centimetre, metre
Mass		larger smaller small	weigh, weighs, balances heavy/light, heavier/lighter, heaviest/lightest balance, scales, weight	weigh, weighs, balances heavy/light, heavier/lighter, heaviest/lightest balance, scales, weight	kilogram (kg), half-kilogram, gram (g)
Capacity			full half full empty holds container	full half full empty holds container	Capacity, contains litre (l), half-litre, millilitre (ml)
Time		'First', 'then', 'after', 'before' "Every day we..." "Every evening we..." 'morning', 'afternoon', 'evening' and 'night-time',	time days of the week: Monday, Tuesday... day, week birthday, holiday morning, afternoon, evening, night bedtime, dinnertime, playtime today, yesterday, tomorrow before, after	time days of the week: Monday, Tuesday... seasons: spring, summer, autumn, winter day, week, month, year weekend, birthday, holiday morning, afternoon, evening night,	months of the year: January, February... minute, second quarter to, quarter past

		<p>'earlier', 'later', 'too late', 'too soon', 'in a minute'.</p> <p>'yesterday' and 'tomorrow'.</p>	<p>next, last 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</p>	<p>midnight bedtime, dinnertime, playtime today, yesterday, tomorrow before, after next, last now, soon, early, late quick, quicker, quickest, quickly fast, faster, fastest slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time hour, o'clock, half past clock, watch, hands how long ago? how long will it be to...? how long will it take to...? how often? always, never, often, sometimes, usually once, twice</p>	<p>digital/analogue clock/watch, timer</p>
Shape		<p>'sides', 'corners'; 'straight', 'flat', 'round'.</p> <p>'sharp corner', 'pointy' or 'curvy'.</p> <p>edge</p>	<p>Sort</p> <p>Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square</p> <p>Shape</p> <p>Flat, curved, straight, round</p> <p>Solid</p> <p>Corner</p> <p>Face, side</p> <p>Make, build, draw</p>	<p>shape, pattern flat curved, straight round hollow, solid corner point, pointed face, side, edge, end sort make, build, draw</p> <p>cube cuboid pyramid sphere cone cylinder</p> <p>circle triangle square rectangle star</p>	<p>Surface</p> <p>vertex. vertices</p> <p>pentagon hexagon octagon</p>
Pattern & Symmetry	repeated the same	'pointy', 'spotty', 'blobs'	<p>Over, under, underneath, above, below, top, bottom, side on, in, outside, inside</p>	<p>size bigger, larger, smaller symmetrical pattern repeating pattern match</p>	<p>line of symmetry fold mirror line, reflection</p>

			<p>In front, behind Front, back Before, after Beside, next to Middle Up, down, forwards, backwards. Sideways Close, far Through Towards, away from Side, roll, turn</p>		
Position & Direction		<p>'in', 'on', 'under', 'up', 'down', 'besides' and 'between'. 'in front of' and 'behind'. '</p>	<p>Over, under, underneath, above, below, top, bottom, side On, in, outside, inside In front, behind Front, back Before, after Beside, next to Middle Up, down, forwards, backwards. Sideways Close, far Through Towards, away from Side, roll, turn</p>	<p>position over, under, underneath above, below top, bottom, side on, in outside, inside around in front, behind front, back before, after beside, next to opposite apart between middle, edge centre corner direction journey left, right up, down forwards, backwards, sideways across close, far, near along through to, from, towards, away from movement slide roll turn, whole turn, half turn stretch, bend</p>	<p>higher, lower route clockwise, anti-clockwise quarter turn right angle straight line</p>
General			<p>Listen, join in Say, think, imagine, remember Start from Look at, point to Put</p>	<p>same number/s different number/s missing number/s number facts number line, number track number square number cards abacus</p>	<p>calculate, calculation mental calculation jotting number pairs number bonds</p>

			<p>What comes next? Find, use, make, build Tell me, describe, pick out, talk about, explain, show me Read, write Tick, draw a line, ring Cost Count, work out Number line, number track, number square, number cards Total Counters, cubes, blocks, die, dice, dominoes, pegs, peg board Same way, different way In order, in a different order</p>	<p>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</p>	<p>Predict describe Investigate</p>
Data					<p>count, tally, sort, vote graph, block graph, pictogram represent group, set same, different list, table label, title most popular, most common least popular, least common</p>