

Mathematics Vocabulary Progression Map

This document sets out the key mathematical vocabulary for both Key Stage 1 and Key Stage 2 under the National Curriculum. The purpose of the document is to identify the words and phrases that children need to understand and use to support their progress in mathematics.

New Mathematical Vocabulary for Year 1

Number and Place Value	Addition and Subtraction	Multiplication and division	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions	Problem Solving and Reasoning
number	number bonds, number line	odd, even	full, half full, empty holds, container	position	group, sort	whole	listen, join in
zero, one, two, three to twenty, and beyond	add, more, plus, make, sum, total, altogether	count in twos, threes, fives	weigh, weighs, balances	over, under, underneath, above, below, top, bottom, side	cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square	equal parts, four equal parts	say, think, imagine, remember
none	inverse	count in tens (forwards from/backwards from)	heavy, heavier, heaviest, light, lighter, lightest	on, in, outside, inside	shape	one half, two halves	start from, start with, start at
count (on/up/to/from/down)	double, near double	how many times?	scales	around, in front, behind	flat, curved, straight, round	a quarter, two quarters	look at, point to
before, after	half, halve	lots of, groups of	time	front, back	hollow, solid		put, place, fit
more, less, many, few, fewer, least, fewest, smallest, greater, lesser	equals, is the same as (including equals sign)	once, twice, three times, five times	days of the week: Monday, Tuesday, etc. seasons: spring, summer, autumn, winter	before, after	corner (point, pointed)		arrange, rearrange
equal to, the same as	difference between	multiple of, times, multiply, multiply by	day, week, month, year, weekend	beside, next to,	pace, side, edge		change, change over split, separate
odd, even	how many more to make?., how many more is...than...?., how much more is..?	repeated addition	birthday, holiday	opposite	make, build, draw		carry on, continue, repeat, what comes next?
pair		array, row, column	morning, afternoon, evening, night, midnight	apart			find, choose, collect, use, make, build
units, ones, tens	subtract, take away, minus	double, halve	bedtime, dinnertime, playtime	between, middle, edge, centre			tell me, describe, pick out, talk about, explain, show me
ten more/less	how many fewer is...than...?., how much less is..?	share, share equally	today, yesterday, tomorrow	corner			read, write, record, trace, copy, complete, finish, end
digit		group in pairs, threes, etc.	before, after next, last now, soon, early, late	direction			
numeral		equal groups of	quick, quicker, quickest, quickly, . fast, faster, fastest, slow, slower, slowest, slowly	journey			cost
figure(s)		divide, divided by, left, left over	old, older, oldest, new, newer, newest	left, right, up, down, forwards, backwards, sideways			count, work out, answer, check same number(s)/different number(s)/missing number(s)
compare				across			
				close, far, near			

Mathematics Vocabulary Progression Map

<p>(in) order/a different order size value between, halfway between above, below</p>			<p>takes longer, takes less time hour, o'clock, half past clock, watch, hands</p> <p>always, never, often, sometimes, usually</p> <p>once, twice first, second, third...</p> <p>estimate, close to, about the same as, just over, just under</p> <p>length, width, height, depth</p> <p>long, longer, longest, short, shorter shortest, tall, taller, tallest, high, higher, highest</p> <p>wide, narrow, deep, shallow, thick, thin</p> <p>far, near, close metre, ruler, metre stick</p> <p>money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay, change, costs more, costs less, cheaper, costs the same as</p> <p>how much? how many? total</p>	<p>along, through</p> <p>to, from, towards, away from</p> <p>movement</p> <p>slide, roll, turn, whole turn, half turn</p> <p>stretch, bend</p>			<p>number facts, number line, number track, number square, number cards</p> <p>abacus, counters, cubes, blocks, rods, die, dice, dominoes, pegs, peg board</p> <p>same way, different way, best way, another way</p> <p>in order, in a different order</p> <p>not all, every, each</p>
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Mathematics Vocabulary Progression Map

New Mathematical Vocabulary for Year 2

Number and Place Value	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions	Data / Statistics	Problem Solving and Reasoning
numbers to one hundred hundreds partition, recombine hundred more/less	quarter past quarter to metres /kilometres grams / kilograms, millilitres /litres 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, repeating 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

New Mathematical Vocabulary for Year 3

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	formal written methods column addition column subtraction	product multiples of four, eight, fifty and one hundred scale up	leap year twelve-hour clock twenty-four hour clock roman numerals i to xii	greater / less than ninety degrees orientation same orientation different orientation	horizontal vertical perpendicular lines parallel lines	numerator denominator unit fraction non unit fraction compare and order tenths	chart, bar chart, frequency table Carroll diagram Venn diagram axis axes diagram

Mathematics Vocabulary Progression Map

New Mathematical Vocabulary for Year 4

Number and Place Value	Multiplication and Division	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions and Decimals	Data / Statistics
tenths, hundredths	multiplication facts (up to 12x12)	convert analogue and digital 12- and 24- hour clocks	coordinates	quadrilaterals	families of common equivalent decimals and fractions	continuous data
decimal (places)	division facts	convert from hours to minutes; minutes to seconds; years to months; weeks to days	translation left/right up/down	triangles	numbers with up to 2 decimal places (tenths, hundredths)	line graph
round (to nearest)	inverse	area of rectilinear shapes	quadrant	right angle acute and obtuse angles		
thousand more/less than	derive		x-axis, y-axis	degrees		
negative integers	quotient		perimeter and area	symmetric		
count through zero	divisor					
Roman numerals to 100 = C	dividend					
	integer scaling					

New Mathematical Vocabulary for Year 5

Number and Place Value	Addition and Subtraction	Multiplication and Division	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fraction, Decimals and Percentages
powers of 10	efficient written methods	factor pairs	volume	reflex angle	regular and irregular polygons	proper fractions, improper fractions, mixed numbers
numbers to 1,000,000		composite numbers, prime number, prime factors, square number, cubed number	imperial units (such as inches, pounds and pints)	dimensions	degrees	percentage
Roman numerals to 1000 = M		formal written methods	convert between different metric units (kilometre, metre; centimetre and metre; gram and kilogram; litre and millilitre)		whole turn = 360°	half, quarter, fifth, two fifths, four fifths
						ratio, proportion

Mathematics Vocabulary Progression Map

New Mathematical Vocabulary for Year 6

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	order of operations	order of operations common factors common multiples interpret remainders common factors common multiples prime numbers	four quadrants in relation to coordinates translate shapes	vertically opposite angles circumference radius diameter	degree of accuracy simplify simplest form same denomination place value in numbers given to 3 decimal places (tenths, hundredths, thousandths)	formulae linear number sequence substitute variables symbol known values	mean average pie chart construct