



Maths Vocabulary Progression

This document sets out maths vocabulary to be introduced for each year group. The lists are intended as a guide as to what pupils should know, and are not exhaustive. It is expected that key vocabulary is displayed on 'Maths Learning Walls' at appropriate times during the academic year, and is promoted through mathematical talk in lessons.

	EYFS	1	2	3	4	5	6
General	number bonds, number sentence, missing numbers number line, counters, cubes, dice, dominoes ten frame, pegs, peg board choose find sort, group, list, puzzle what could we try next? How did you work it out? Show me how... How can we find out? How do you know? Compare, problem, solve the problem Combine objects, Recite Symbol Can you spot a mistake?	100 square, Explain, Continue the pattern Can you notice an error? Organise Solve Is there another way? Mental Mentally Investigate	Predict, describe the pattern, describe the rule, find all, find different, calculation, Automatically (ref to recall) Recall X quickly Complex problem One step problem Two step problem Explain your thinking Related fact Use the inverse to check Does it look right? Convince me... What will happen if..	Calculate Approximate Approximately Prove Systematic Mental method So you can deduce Demonstrate Diagram Accurate Accuracy	Justify Explain your reasoning Operation From this you can deduce/derive commutative	Formula Interpret Determine Notation (e.g. fraction/decimal)	Multi-step problems

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	Can you notice a mistake? Sequence In your head Check						
Number and Place Value	<p>Subitise How many? Count, count up, count on, count back.</p> <p>quantity</p> <p>Number, Zero, one, two, three .. to twenty, and beyond, none</p> <p>one more, one less</p> <p>equal to, the same as</p> <p>before, next, after</p> <p>many few, fewer, fewest, least largest, larger, small, smallest</p> <p>odd, even, pair</p>	<p>Count (on/up/to/from/ down) More, less, smallest, greater, lesser ones, tens Ten more/less, Digit, Numeral, Figure (s) Value between, half way between, above, below,</p>	<p>Numbers to one hundred and beyond</p> <p>Hundreds, Partition, represent, stands for, recombine, Hundred more/less</p> <p>>Greater than</p> <p>< less than Estimate</p> <p>Two digit number</p>	<p>Numbers to one thousand</p> <p>Round to nearest ten/hundred Round up/down</p> <p>Three digit number</p>	<p>Ten thousand</p> <p>Count in 6s, 7s, 9s, 25s, 100s.</p> <p>Thousands, Tenths, hundredths Decimal (places) Decimal point, decimal equivalent, Round to nearest Thousand more/less than Negative integers Count through zero Roman numerals (I to C)</p> <p>Negative numbers Positive numbers</p> <p>Integer</p> <p>Consecutive</p>	<p>Hundred Thousand</p> <p>Prime number Ascending Descending Greater than or equal to (symbol) Less than or equal to (symbol)</p> <p>Roman numerals to 1000 (M)</p>	<p>Numbers to ten million</p>

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	<p>order, different, order size, compare, first, second, third... twelfth, before, after, next, between</p> <p>guess, how many, estimate, too many, too few, enough, not enough</p>						
Addition and Subtraction	<p>Number bonds, Add, more, plus, make, sum, total, altogether</p> <p>Equals, is the same as (including equals sign)</p> <p>How many more to make..? How many left?</p> <p>Take away</p> <p>Subtract</p>	<p>Number line, Inverse Double, near double</p> <p>Half, halve</p> <p>Difference between,</p> <p>Count on, count back</p> <p>Minus</p> <p>Sum (<i>only use in relation to adding numbers together</i>)</p>	<p>Regrouping</p> <p>Can be done in any order</p>	<p>Column addition and subtraction</p> <p>Mental method</p> <p>Formal method</p> <p>Expanded method</p>		<p>Efficient written method</p>	
Multiplication and Division	<p>Share</p> <p>Sharing</p> <p>Count in 2s, 5s, 10s (introduce pattern in numbers), double</p>	<p>Count in twos, fives</p> <p>Count in tens (forwards from/backwards from)</p> <p>How many times? Lots of, groups of, Once,</p>	<p>Multiple of multiplication</p> <p>Count in 3s remainder</p>	<p>Product Multiples of four, eight, fifty and one hundred</p> <p>Scale up, Mental method</p> <p>Grid method</p>	<p>Factor, Factors pairs</p> <p>Multiplication facts (up to 12x12)</p> <p>Division facts</p> <p>Inverse Derive, Short division and multiplication</p> <p>Regrouping</p>	<p>Composite numbers, prime number, prime factors, square number, cubed number</p> <p>Common factor</p> <p>Long multiplication</p>	<p>Common factors, common multiples</p> <p>Long division</p>

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		<p>twice, three times, five times</p> <p>Multiple of, times, multiply, multiply by</p> <p>Repeated addition, array, row, column, halve, share equally</p> <p>Group in pairs, threes etc .</p> <p>Equal groups of, divide, divided by , left, left over</p>			<p>Distributive law</p> <p>Formal method</p>	<p>Scaling</p> <p>Divisibility</p> <p>divisible</p>	
Fractions	Half	<p>Whole Equal parts, four equal parts</p> <p>One, two halves</p> <p>A quarter, two quarters</p>	<p>Three quarters, one third, a third, equal</p> <p>Equivalence, equivalent</p>	<p>Numerator, denominator</p> <p>Unit fraction, non-unit fraction</p> <p>Compare and order</p> <p>Tenths</p> <p>Sixths, Sevenths, eighths, tenths.</p> <p>Proper fraction</p> <p>Mixed number fraction</p> <p>Simplify</p>	<p>Hundredths</p> <p>Decimal equivalents</p> <p>Value of the digits</p>	<p>Proper fractions, improper fractions, mixed numbers</p> <p>Percentage Half, quarter, fifth, two fifths, four fifths</p> <p>Ratio, proportion</p> <p>Reduced to Cancel</p> <p>Thousandths</p> <p>In every</p> <p>For every</p> <p>Percentage</p> <p>Percent</p>	<p>Degree of accuracy</p> <p>Simplify</p>



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						Number of parts per hundred	
Measurement	<p>Capacity, full, half full, empty, nearly full, nearly empty</p> <p>Holds, Container, jug</p> <p>Weigh, weighs, balances Heavy, heavier, heaviest, light, lighter, lightest</p> <p>Balance scales</p> <p>Measuring cylinder</p> <p>Measure</p> <p>Time, days of the week: Monday, Tuesday, etc.</p> <p>Seasons: spring, summer, autumn, winter, day, week, weekend, year, Birthday, holiday</p> <p>Morning, afternoon, evening, night, bed time, dinner time, playtime</p> <p>Today, yesterday, tomorrow, before, after, next, last, order.</p>	<p>Months</p> <p>Now , soon, early , late,,quick , quicker, quickest, quickly , fast, faster, fastest, slow , slower, slowest, slowly</p> <p>Old, older, oldest, new, newer, newest, takes longer,</p> <p>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. , close to, about the same as, just over, just under Too</p>	<p>Quarter past/to 5, 10, 20 minutes past</p> <p>m/km, g/kg, ml/l</p> <p>Temperature (degrees),</p> <p>Fortnight</p> <p>Digital</p> <p>Analogue</p> <p>Chronological order</p> <p>Scales, temperature, thermometer</p> <p>Cylinder</p> <p>Beaker</p> <p>Going up in intervals of</p> <p>Estimate point in between</p> <p>Combination (of coins)</p> <p>ml</p>	<p>Decade, century, Leap year</p> <p>Twelve hour/twenty-four hour clock</p> <p>Roman numerals I to XIII</p> <p>Minutes</p> <p>Noon, midnight</p> <p>Duration</p> <p>Calculate the time taken</p> <p>Latest</p> <p>Earliest</p> <p>Am/pm</p> <p>Centigrade</p> <p>Mm, km</p> <p>Distance</p> <p>apart..between..to..from..</p> <p>Perimeter</p> <p>Convert (between different units of measurement)</p> <p>Units mm accurate</p>	<p>Convert</p> <p>Area (cm²) covers</p> <p>Units, standard unit, metric unit</p> <p>Mass</p> <p>Volume</p> <p>Millennium</p> <p>Timetable</p> <p>Arrive</p> <p>Depart</p> <p>Measuring cylinder</p>	<p>Square meter</p> <p>Square millimetre</p> <p>Pint</p> <p>Gallon</p> <p>Discount, currency</p> <p>Approximate equivalences</p> <p>Imperial units</p> <p>Yard</p> <p>Foot</p> <p>Feet</p> <p>Inches</p> <p>Ton, pound, ounce, pint</p> <p>Degrees protractor</p>	<p>Volume, Imperial units</p> <p>Cl</p> <p>Cubic cl</p> <p>Cubic m</p> <p>Cubic mm</p> <p>Cubic km</p> <p>Prophet</p> <p>Loss</p>

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	<p>First, second, third , etc</p> <p>Guess, estimate, how many, nearly, close to, about the same as, just over, just under</p> <p>Long, longer, longest, short, shorter shortest, tall, taller, tallest, metre, wide, narrow, size, bigger, larger, smaller</p> <p>Money, coin, penny, cost, buy, pay</p>	<p>many, too few, not enough, enough Length, width, height, depth, high, higher, highest</p> <p>Low, wide, narrow, deep, shallow, thick, thin Far, near, close Metre, ruler, metre stick, quarter full</p> <p>pence, pound, symbol, price, cost, sell, spend, spent, change, dear(er), costs more, costs less, cheaper, costs the same as</p> <p>How much?, how many?</p> <p>Total</p> <p>Midnight</p> <p>Centimetre cm</p> <p>Ruler</p> <p>Meter stick m</p> <p>Kilogram kg</p> <p>Half kilogram</p> <p>Litre l</p>					
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Maths Vocabulary Progression



Shape	sort	seconds					
	<p>Hexagon, Octagon</p> <p>3.D. shape: Cube, cuboid, pyramid, sphere, cone, cylinder, edge. What shape can you see on this part of the XXX?</p> <p>2.D. shape: circle, triangle, square, rectangle, star Flat, curved, straight, round, point, Sides, corners. <i>If a child makes reference to a diamond they may be told that whilst it's often called a diamond, when they're older they will learn its proper name is a rhombus.</i></p> <p>Repeated pattern Pointy, spotty, blobs (informal descriptions of patterns)</p>	<p>Hexagon, Octagon</p> <p><i>If a child makes reference to a diamond they may be told that whilst it's often called a diamond, when they're older they will learn its proper name is a rhombus.</i></p> <p>Group, Hollow, solid face, vertex, vertices</p>	<p>Pentagon, square based pyramid, triangular based pyramid Describe it, describe it's properties Surface Compare the objects/shapes Sort the objects/shapes What's different about the shapes</p> <p><i>If a child makes reference to a diamond they may be told that whilst it's often called a diamond, when they're older they will learn its proper name is a rhombus.</i></p> <p>Symmetrical, line of symmetry Fold Match Mirror line, reflection Pattern, repeating pattern, surface nets</p>	<p>Heptagon Triangular prism Pentagonal prism Hexagonal prism Octagonal prism Quadrilateral Orientation Irregular shapes</p> <p>Horizontal, vertical, perpendicular and parallel lines right angles (shapes) greater than a right angle less than a right angle</p>	<p>Oblong, isosceles, right angle triangle, scalene, equilateral triangle Parallelogram Rhombus Trapezium polygon</p> <p>Regular and irregular Polygons acute and obtuse angles</p> <p>Construct Reflect, reflection</p>	<p>Regular polygon Irregular polygon octahedron</p>	<p>Kite Dodecahedron</p> <p>Vertically opposite (angles) Meet at a point Circumference, radius, diameter Reflex angle</p> <p>Classify the shapes Dimensions</p>

Maths Vocabulary Progression



	Make, build, draw						
Position and Direction	<p>Under, in, on, next to. In between, behind, In front, front, back, before, after, beside</p> <p>Route location</p>	<p>Position Over, underneath, above, below, top, bottom, side on, outside, inside around, Opposite Apart, middle, edge, centre corner, direction, journey, left, right, up, down, forwards, backwards, sideways, across, Close, far, near, along, through to, from, towards, a way from, movement, Slide, roll, turn, whole turn, half turn, stretch, bend</p>	<p>Rotation, rotating, Clockwise, anticlockwise Straight line, ninety degree turn, right angle, quarter turn, half turn, three-quarter turn</p> <p>order, arrange</p>	<p>Greater/less than ninety degrees Orientation (same orientation, different orientation) Compass points – N, S, W, E.</p>	<p>Coordinates, Translation Quadrant, x-axis, y-axis, plot</p> <p>Compass points – NE, NW, SE, SW.</p>	<p>Reflex angle Dimensions Reflection Translation translate</p>	<p>Four quadrants (for coordinates) Full coordinate grid Rotation Rotate</p>
Data/Statistics			<p>Count, tally, tally chart, sort, vote Graph, bar graph, pictogram, Represent Group, set, list, table, label, title Most</p>	<p>Chart, bar chart, frequency table, Carroll diagram, Venn diagram Axis, axes Diagram Interval, Survey How many more How many fewer</p>	<p>Construct Continuous data Line graph Questionnaire Data x-axis y-axis</p>	<p>Data base Line graph Outcome Maximum minimum Timetables database</p>	<p>Pie chart Mean Statistics Distribution Range Average <i>Discrete data</i></p>

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			popular, most common, least popular, least common, compare		make a comparison		<i>Continuous data</i>
Ratio and Proportion							Ratio Proportion Likely Unlikely Probably
Algebra				Corresponds (l x w)			linear number sequence Substitute, Variables, Symbol Known values, formulae equation unknown, satisfy an equation, algebraically, scale factor