

Coalbrookdale Progression in Mathematics Vocabulary Document



An essential building block in pupil's understanding of mathematics is their knowledge of the correct use of the key words and terminology in mathematics. This document is designed to assist with the teaching of this mathematical vocabulary across EYFS, KSI and KS2 and is aligned with the long-term scheme of work. This document identifies in which year group vocabulary should be explicitly taught and introduced. Language will be revisited in subsequent year groups to ensure children are consolidating their understanding.

The vocabulary is displayed at the front of class in every maths lesson, on the mathematics working walls and modelled by the class teachers. Following the explicit teaching of the vocabulary the children are encouraged and expected to use this mathematical vocabulary in their verbal explanations and in their written work.

Some vocabulary might be introduced earlier (shapes for instance) if necessary or as part of an activity, however this document ensures coverage is progressive.



Number - Number and place value						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
count	sort	count in steps	ascending	negative numbers	ten thousands	millions
subitise	represent	count in multiples	descending	roman numerals	one hundred thousands	ten millions
order/ordinal	multiples	place value	10 or 100 more	1000 more	powers of	
compare	partitioning	estimate	10 or 100 less	1000 less	integer	
forwards	ones	compare	hundreds	thousands		
backwards	tens	round		rounding		
numerals						
digit						
one more						
one less						
equal to						
more than						
less than (fewer)						

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Addition and subtraction						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
add	addition/add	sum	column addition	4-digit number		
plus	subtraction	3-digit number	column subtraction	operations		
altogether	difference	commutative	exchange	methods		
total	equals	estimate				
take away /minus	facts					
number bonds	problems					
part	missing number problems					
whole	2-digit number					
digit	inverse					
	sum					
	greater than					
	less than					

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Multiplication and division						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
double	multiplication	multiplication tables	exchange	factor pairs	multiples	multi-digit numbers
half	division	commutative	mathematical statements	formal written layout	factors	long division
twice as many	arrays	repeated addition	missing number problems	distributive law	composite number	
equal			integer scaling problems	remainders	prime numbers	
unequal			correspondence problems		squared	
share			derived facts		square numbers	
group					cube numbers	
odd					short division	
even					product	
					dividend	
					divisor	
					quotient	
					operations	

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Fractions / Decimals / Percentages						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	whole	three quarters	tenths	decimal equivalence	fifth	
	half	third		hundredths	thousandths	
	quarter	equivalent fractions		convert	mixed numbers	
	equal parts	unit fractions		proper fractions	per cent %	
		non unit fractions		improper fractions	factors	
		numerator		decimal point	integer	
		denominator			complements	
		one whole				

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Measurement (measure and length)						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
measure	compare	standard units	millimetre mm	kilometres km	decimal notation	conversion
wide(er)		estimate	perimeter	rectilinear figure	scaling	miles
narrow(er)		order		area	metric units	formulae
compare		record results			imperial units	parallelograms
long(er) (est)		centimetre cm			inches	triangles
short(er) (est)		metre m			compound shape	feet
length					irregular shapes	
					square centimetres	
					square metres	

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Measurement (height, weight and capacity)						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
long(er)/short(er)	mass	kilogram kg			cubic centimetres	cubic metre
tall(er)/short(er)	volume	gram g			pounds	cubic millimetre
weight		quarter full			pints	cubic kilometre
capacity		three quarters full				gallons
heavy/light		litres l				stones
heavier than		millilitres ml				ounces
lighter than		temperature				
big/bigger/biggest		Celsius				
full/empty						
more than						
less than						
half/half full						

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Measurement (time)						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
time	chronological order	intervals of time	analogue clock	convert		
quicker	days of the week	quarter past/to	roman numerals			
slower	months of the year	duration	12-hour clock			
earlier	month		24-hour clock			
later	year		a.m./p.m.			
before	o'clock		noon			
after	half past		midnight			
first	second		leap year			
next			digital			
today						
yesterday						
tomorrow						
morning						
afternoon						
evening						
day						
week						
hour						
minutes						

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Measurement (money)						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	money	value				
	coins	change				
	notes					
	pounds £					
	pence p					



Geometry (properties of shape)						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
2-d shapes	sides	polygon	right-angle triangle	isosceles	regular polygon	radius
oblong rectangle	corners	pentagon	heptagon	equilateral	irregular polygon	diameter
square	properties	hexagon	properties	scalene	congruent	circumference
circle	pyramids	octagon	prism	trapezium	exterior	dimensions
triangle	faces	line of symmetry	area	rhombus	interior	
characteristics		symmetrical		parallelogram		
3-d shapes		properties		kite		
cuboids		cylinder		geometric shapes		
cubes		edges		quadrilaterals		
cone		vertices				
spheres		vertex				
curved						
straight						
flat						

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Geometry (property of shape, lines and angles)						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			orientations		reflex angles	
			adjacent		degrees	
			angles		one whole turn	
			acute angle		angles on straight line	
			obtuse angle		angles around a point	
			turn		vertically opposite	
			right angles		missing angles	
			half turn			
			three quarters of a turn			
			greater than right angle			
			less than right angle			
			horizontal lines			
			vertical lines			
			perpendicular lines			
			parallel lines			
			diagonal			

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Geometry (position and direction)						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
over	position	clockwise/anti-clockwise		co-ordinates	reflection	four quadrants
under	direction	straight line		first quadrant		co-ordinate plane
between	movement	rotation		grid		
around	whole turn	arrange		translation		
through	quarter turn	sequences		plot		
on	half turn			polygon		
into	three-quarter turn			axis		
next to				axis of symmetry		
behind						
beneath						
order						
repeat						
patterns						
on top of						

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Statistics						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		pictograms	table	time graph	timetable	pie chart
		tally chart	bar chart	discrete data	two-way tables	mean
		block diagram	one-step problem	continuous data		
		category	two-step problem	line graph		
		sorting		comparison problem		
		totalling		sum problem		
		comparing		difference problem		
		horizontal		calculate		
		vertical		interpret		

Consistent use of language:

- digit – when referring to any number from 0-9 (inclusive)
- equation – when referring to a statement of equality between two expressions (e.g. $3 \times 4 = 6 + 6$)