

Mathematics Vocabulary Progression document (YR-Y6)



This document is designed to assist with the teaching of vocabulary across KS2 and is aligned with the White Rose schemes of learning, R2 long-term overviews and knowledge organisers. This document identifies in which year group vocabulary should be explicitly taught and introduced. However, language should be revisited in subsequent year groups to ensure children are consolidating their understanding. This document is fully editable so language can be moved into earlier or later year groups where necessary.

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 and Place Value

EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
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		
numerals						
digit						
one more						
one less						
equal to						
more than						
less than (fewer)						

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Addition and subtraction

EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
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					

Multiplication and division

EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
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	prime numbers	
equal			integer scaling problems	Remainders	square numbers	
unequal			correspondence problems		cube numbers	
share			derived facts		short division	
group					Product	
odd					Dividend	
even					divisor	
					quotient	
					operations	

Measurements - money

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
money	change	sold				
coin	dear,	brought				
penny	costs more					
pence	cheap					
pound	costs less,					
price, cost	cheaper					
	costs the same as					
buy, sell	how much ...?					
	how many ...?					
spend	total					
spent						
pay						

Statistic

Statistic						
EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
count	vote	label	table	time graph	timetable	pie chart
sort	table	title	bar chart	discrete data	two-way tables	mean
list	chart	most popular,	one-step problem	continuous data		
group		most common least popular	two-step problem	line graph		
set		least common	Horizontal	comparison problem		
		block graph	Vertical	sum problem		
		pictogram		difference problem		
		represent		Calculate		
		tally		Interpret		
		graph				
		represent				

Measurements- length

Measurements- length						
EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
measure	compare	standard units	millimetre mm	kilometres km	decimal notation	conversion
wide(er)	centimetre	estimate	perimeter	rectilinear figure	scaling	miles
narrow(er)	ruler	order		area	metric units	formulae
long(er)(est)	metre stick	record results			imperial units	parallelograms
short(er)(est)	roughly	centimetre cm			inches	triangles
length		metre m			compound shape	Feet
depth		further/furthest			irregular shapes	
nearby		measuring scales			square centimetres	
close					square metres	

Fractions/Decimals and percentages

EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
parts of a whole	fraction	equivalent	tenths	decimal equivalence	fifth	
half	equal part	fraction		hundredths	thousandths	
quarter	equal grouping	mixed number		convert	mixed numbers	
	equal sharing	numerator,		proper fractions	per cent %	
	one of two equal parts	denominator		improper fractions	factors	
	one of four equal parts	two halves		decimal point	integer	
		two quarters			complements	
		three quarters				
		one third				
		two thirds				
		one of 3 equal parts				

Measurements - time

EYFS	Year 1	Year 2	Year 3/4	Year 5/6
time	chronological order	intervals of time	analogue clock	
quicker	days of the week	quarter past/to	roman numerals	
slower	months of the year	duration	12-hour clock	
o'clock	Month	Seconds	24-hour clock	
Last	Year	Fortnight	a.m./p.m.	
before	quarter past	watch/clock	noon	
after	half past		midnight	
first	second		leap year	
next	earlier		digital	
today	later			
yesterday	how long ago?			
tomorrow	always			

morning	never					
afternoon	often					
evening	sometimes					
day	weekends					
week	midnight					
hour	seasons					
minutes						
Days of the week						

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Geometry – properties of shape

EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
2-d shapes	sides	pentagon	right-angle triangle	isosceles	regular polygon	radius
rectangle	corners	hexagon	heptagon	equilateral	irregular polygon	diameter
square	properties	line of symmetry	octagon	scalene		circumference
circle	pyramids	properties	polygon	trapezium		dimensions
triangle	faces	cylinder	properties	rhombus		
characteristics	cuboid	edges	prism	parallelogram.		
3-d shapes	cylinder	vertices	hemisphere	kite		
cuboids		vertex		geometric shapes		
cubes		rectangular		quadrilaterals		
cone		circular				
spheres						
curved						
straight						

flat						
side						
corner						
face						
edge						
cube						
pyramid						
sphere						
cone						

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Geometry – properties of shape 2

EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
shape	symmetry	line	orientations		reflex angles	
pattern	symmetrical pattern	surface	angles		degrees	
flat			acute angle		one whole turn	
round			obtuse angle		angles on straight line	
hollow			turn		angles around a point	
solid			right angles		vertically opposite	
curved			half turn		missing angles	
straight			three quarters of a turn			
size			greater than right angle			
symmetrical			less than right angle			
pattern			horizontal lines			
match			vertical lines			

			perpendicular lines			
			parallel lines			

Geometry – position and direction

EYFS	Year 1	Year 2	Year 3/4	Year 5/6
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	higher		Polygon
Into	three-quarter turn	lower		Axis
next to	underneath	route		North, South, East and West
behind	centre	right angle		
beneath				
Order				
repeat				
patterns				

on top of						
Position						
direction						
left						
right						

Measurements – height, weight and capacity

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

Ratio and Proportion

EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
						relative size
						missing values
						integer multiplication
						percentages
						scale factor
						unequal sharing & grouping

Algebra

EYFS	Year 1	Year 2	Year 3/4		Year 5/6	
						formulae
						linear number sequences algebraically
						equation
						unknowns
						combinations
						variables

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