Mathematics Vocabulary Progression document (YR-Y6)

This document is designed to assist with the teaching of vocabulary across EYFS, KS1 and KS2 and is aligned with the NCETM progression documents, long-term overviews and Calculation policy.
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.

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	2 digit number	count in steps	ascending	negative numbers	ten thousands	millions
subitise	represent	count in multiples	descending	roman numerals	one hundred thousands	ten millions
order/ordinal	partitioning	place value	10 or 100 more	1000 more		
compare	ones	estimate	10 or 100 less	1000 less		
forwards	tens	compare	hundreds	thousands		
backwards		Significant digit		round		
numerals						
digit						
one more						
one less						
equal to						
more than						
less than (fewer)						
odd						
even						

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	inverse	column subtraction	operations		
altogether	difference	commutative	exchange	strategy		
total	equals		estimate			
take away /minus			3 digit number			
number bonds			method			
part						
whole						
digit						

Multiplication and division						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
double		multiplication tables	exchange	factor pairs	powers of	multi-digit numbers

half		commutative	derived facts	distributive law	factors	long division
equal		repeated addition	integer	remainders	prime numbers	
unequal		multiplication			square numbers	
share		division			cube numbers	
group		arrays			short division	
		multiples			product	
					dividend	
					divisor	
					quotient	
					operations	

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

		one whole		decimal point	complements	

Ratio and proportion						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
						relative size
						missing values
						integer multiplication
						percentages
						scale factor
						unequal sharing & grouping

Algebra						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
						formulae
						linear number sequences
						algebraically
						equation
						unknowns
						combinations

						variables

leasurement (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	
long(er)(est)		centimetre cm			inches	
short(er)(est)		metre m			compound shape	
length					irregular shapes	
					square centimetres	
					square metres	

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

full/empty						
more than						
less than						
half/half full						

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						
Night						
day						
week						
hour						
minutes						

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	pentagon	right-angle triangle	isosceles		radius
rectangle	vertices	hexagon	heptagon	equilateral		diameter
square	properties	line of symmetry	octagon	scalene		circumference
circle	pyramids	properties	polygon	trapezium		dimensions
triangle	faces	cylinder	properties	rhombus		
characteristics	vertex	edges	prism	parallelogram		
3-d shapes		regular polygon		kite		
cuboids		irregular polygon		geometric shapes		
cubes				quadrilaterals		
cone						
spheres						
curved						
straight						

flat						

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

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						
behind						
beneath						
order						
repeat						
patterns						
on top of						

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		