Blessed is the one who trusts in the Lord, whose confidence is in him.
They will be like a tree planted by the water that sends out its roots by the stream

It does not fear when heat comes; its leaves are always green.

It has no worries in a year of drought and never fails to bear fruit.

Jeremiah 17: 7 - 8

Mathematics Vocabulary Progression Document Y1– Y6 (See separate vocabulary progression for EYFS)

At The Federation of Middleham CE (VA) Junior School and Spennithorne CE (VA) Infant School, we ensure the teaching and introduction of new Mathematical vocabulary is progressive and key to children's understanding and ability to explore and explain their learning in Mathematics. This document is designed to assist with the teaching of vocabulary across KS1 and KS2 and is aligned with the White Rose schemes of learning, and long-term overviews we use at our federation. 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.

Number - Number and place value					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
sort	count in steps	ascending	negative numbers	ten thousands	millions
represent	count in multiples	descending	roman numerals	one hundred thousands	ten millions
multiples	place value	10 or 100 more	1000 more	powers of	
partitioning	estimate	10 or 100 less	1000 less	integer	
ones	compare	hundreds	thousands		
tens			round		

Addition and subtraction					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
addition/add	sum	column addition	4-digit number		
subtraction	3-digit number	column subtraction	operations		
difference	commutative	exchange	methods		
equals		estimate			
facts					
problems					
missing number problems					
2-digit number					
inverse					

Multiplication and division					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
multiplication	multiplication tables	exchange	factor pairs	multiples	multi-digit numbers
division	commutative	mathematical statements	formal written layout	factors	long division
arrays	repeated addition	missing number problems	distributive law	prime numbers	
		integer scaling problems	remainders	square numbers	
		correspondence problems		cube numbers	
		derived facts		short division	
				product	
				dividend	
				divisor	
				quotient	
				operations	

Fractions/Decimals/Percentages					
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				

Ratio and proportion					
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					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
					formulae
					linear number sequences
					algebraically
					equation
					unknowns
					combinations
					variables

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

Measurement (Height, Weight and Capacity)					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
mass	kilogram kg			cubic centimetre	cubic metre
volume	gram g			pounds	cubic millimetre
	quarter full			pints	cubic kilometre
	three quarters full				gallons
	litres l				stones
	millilitres ml				ounces
	temperature				
	Celsius				

Measurement (Time)					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
chronological order	intervals of time	analogue clock	convert		
days of the week	quarter past/to	roman numerals			
months of the year	duration	12-hour clock			
month		24-hour clock			
year		a.m./p.m.			
o'clock		noon			
half past		midnight			
second		leap year			
		digital			

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

Geometry – Properties of Shape					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
sides	pentagon	right-angle triangle	isosceles	regular polygon	radius
corners	hexagon	heptagon	equilateral	irregular polygon	diameter
properties	line of symmetry	octagon	scalene		circumference
pyramids	properties	polygon	trapezium		dimensions
faces	cylinder	properties	rhombus		
	edges	prism	parallelogram		
	vertices		kite		
	vertex		geometric shapes		
			quadrilaterals		

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