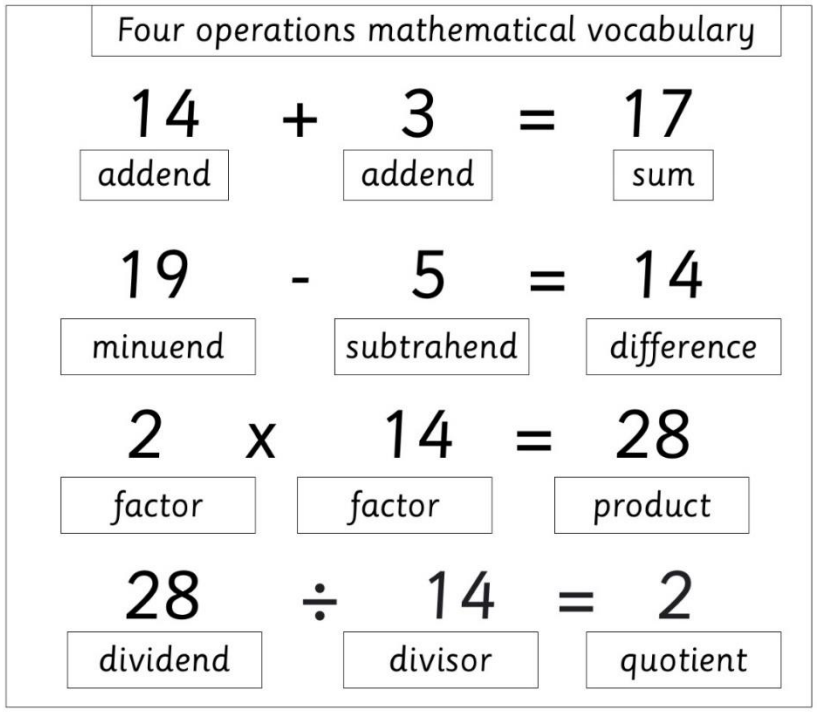
Mathematics Vocabulary Progression Document.

This document is designed to assist with the teaching of vocabulary across EYFS, KS1, KS2 and is aligned with the White Rose Scheme of Learning. This identifies when the vocabulary will be introduced in specific year groups and it will often be used within a sentence stem (which provides the framework to embed conceptual knowledge and build understanding).

Below is the vocabulary that we use across the school to describe the four operations in Mathematics. Each part of a calculation has a name and a function and the children will be encouraged to use these terms when discussing the relevant Maths.



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		
Numerals						
Digit						
One more						
One less						
Equal to						
More than						
Less than (fewer)						

Addition and Subtraction						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Addend	Addition/add	3 digit number	Column addition	4 digit number		
sum	Minuend	commutative	Column subtraction	Operations		
add	Subtrahend		Exchange	methods		
Plus	Subtraction		estimate			
Altogether	Difference					
Total	Equals					
Take away/minus	Facts					
Number bonds	Problems					
Part	Missing number problems					
whole	2 digit number					
digit	inverse					

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	Prime numbers	
Equal	Factor		Integer scaling problems	remainders	Square numbers	
Unequal	product		Correspondence problems		Cube numbers	
Share	dividend		Derived facts		Short division	
Group	divisor				Product	
Odd	quotient				Dividend	
even					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		
	Half	Third		hundredths		
	Quarter	Equivalent fractions		Convert		
	Equal parts	Unit fractions		Proper fractions		
		Non unit fractions		Improper fractions		
		Numerator		dec		
		Denominator				
		One whole				

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 ad grouping

Algebra						
Reception	**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)						
Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
measure	compare	Standard units	Millimetre mm	Kilometres	Decimal notation	Conversion
wide(er)		Estimate	perimeter	Rectilinear figure	Scaling	Miles
Narrow(er)		Order		area	Metric units	Formulae
comapre		Record results			Imperial units	feet
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) (est)	volume	gram g			pounds	Cubic millimetre
tall (er) (est)		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						

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						

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	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		edges	prism	parallelogram		
3-d shapes		vertices		kite		
cuboids		vertex		geometric shapes		
cubes				quadrilaterals		
cone						
spheres						
curved						
straight						
flat						

Geometry – Properties of Shape (2)						
Reception	**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/anticlockwise		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		
		Totalling		Sum problem		
		Comparing		Difference problem		
		Horizontal		Calculate interpret		
		vertical				