Maths Vocabulary Progression Document for College Road Primary School

College Road
Primary School

This document is aligned with the White Rose Maths Scheme of Learning and designed to assist with the teaching of mathematical vocabulary across the whole of our school. This document identifies in which year group vocabulary should be explicitly taught and introduced, although language will be revisited in subsequent year groups to ensure children are consolidating their understanding and gaining 'sticky knowledge'. Some vocabulary might be introduced earlier to help with understanding, if necessary, or as part of an activity, topic or other curriculum subject. However, this document ensures coverage in maths is progressive.

Number

Number and Place Value

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

Number

Addition and Subtraction

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
add plus altogether total take away minus subtract part whole digit number bonds	addition subtraction difference equals facts problems missing number problems 2 - digit number inverse	sum commutative 3 digit number	column addition column subtraction exchange estimate	4 digit number operations methods		

Number

Multiplication and Division

Foundation	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			integer scaling problems	remainders	square numbers	
unequal			correspondence problems		cube numbers	
share			derived facts		short division	
group					product	
odd					dividend	
even					divisor	
					Quotient	
					operations	

Number

Fractions / Decimals / Percentages

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	whole half quarter equal parts	three quarters third equivalent fractions unit fractions non unit fractions numerator denominator one whole	tenths	decimal equivalence hundredths convert proper fractions improper fractions decimal point	fifth thousands mixed numbers percent % factors integer complements	

Number

Ratio and Proportion

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						relative size missing values integer multiplication percentages scale factor unequal sharing and grouping

Number

Algebra

Foundation	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

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
measure wide (er) narrow (er) compare long (er/est) short (er/est) length	compare	Standard Units Estimate Order Centimetre cm Metre m	millimetre mm perimeter	Kilometres km rectilinear figure area	decimal notation scaling metric units imperial units inches compound shape irregular shapes square centimetres square metres	Conversion Miles Formulae parallelograms Triangles feet

Measurement

Height, Weight, Capacity and Temperature

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

Measurement

Time

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

Measurement

Money

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
* As part of our social enterprise we introduce money: money coppers silver pence p worth cost	money coins notes pounds £ pence p	value change				

Geometry

Properties of shape

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
2D shapes rectangle (oblong) square circle triangle 3D shapes cubes cone sphere curved straight flat * Although this is not an expectation, we begin to drop in: sides corners (vertices) angles circumference just to help with the mathematical understanding	sides corners properties pyramids faces cuboids	Pentagon Hexagon line of symmetry properties cylinder edges vertices vertex	right angle heptagon octagon polygon prism	isosceles equilateral scalene trapezium rhombus parallelogram kite geometric shape quadrilaterals	regular polygon irregular polygon	radius diameter circumference dimensions

Geometry

Angles and Lines

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			orientations angles acute angles obtuse angles turn right angles half turn three quarters of a turn horizontal lines vertical lines perpendicular lines parallel lines		reflex angles degrees one whole turn angles on straight line angles around a point vertically opposite missing angles	

Geometry

Position and Direction

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

Statistics

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Pictograms Tally chart Block diagram Category Sorting Totalling Comparing Horizontal vertical	table bar chart one-step problem two-step problem	time graph discrete data continuous data line graph comparison problem sum problem difference problem calculate interpret	timetable two-way tables	pie chart mean