QPS: Year 5 Mathematics end of year goals (based on statutory and non-statutory DFE mathematical guidance and the DFE Ready to Progress Criteria)

Place Value	Addition	Multiplication and Division	Fractions	Measurement	Geometry	Statistics
	and					
	Subtraction				11 11 0 0 0	
Interpret negative numbers in context,	Add and subtract	Identify multiples and factors, including finding all factor pairs of a number, and common factors of	Recognise the per cent symbol (%) and understand that per cent relates to 'number	Convert between different units of metric measure (for example,	Identify 3-D shapes, including cubes and other	Solve comparison,
count forwards and	numbers	two numbers	of parts per hundred', and write percentages	kilometre and metre: centimetre	cuboids, from 2-D	sum and
backwards with	mentally with	two numbers	as a fraction with denominator 100, and as a	and metre; centimetre and	representations	difference
positive and	increasingly	Know and use the vocabulary of prime numbers,	decimal	millimetre; gram and kilogram;	Tepresentations	problems
negative whole	large numbers	prime factors and composite (non-prime) numbers	domina	litre and millilitre)	Know angles are measured	using
numbers, including	eq 5-digit – 4-		Recognise mixed numbers and improper	, , , , , , , , , , , , , , , , , , , ,	in degrees: estimate and	information
through zero	digit multiple of	Establish whether a number up to 100 is prime and	fractions and convert from one form to the	Understand and use approximate	compare acute, obtuse and	presented in
	10	recall prime numbers up to 19	other and write mathematical statements > 1	equivalences between metric units	reflex angles	a line graph
Count forwards or		·	as a mixed number [for example,2/5 + 4/5= =	and common imperial units such		
backwards in steps	Add and	Recognise and use square numbers and cube	1 1/5	as inches, pounds and pints	Draw given angles, and	Complete,
of powers of 10 for	subtract whole	numbers, and the notation for squared (2) and cubed			measure them in degrees	read and
any given number up	numbers with	(3)	Identify, name and write equivalent fractions of a	Measure and calculate the	(°)	interpret
to 1 000 000	more than 4		given fraction, represented visually, including	perimeter of composite rectilinear		information in
But I was a star	digits,	Multiply and divide numbers mentally drawing upon	tenths and hundredths	shapes in centimetres and metres	Identify:	tables,
Read, write, order	including using	known facts	0	0-1	angles at a point and one	including
and compare numbers to at least	formal written methods	Multiply and divide whole numbers and those	Compare and order fractions whose denominators are all multiples of the same	Calculate and compare the area of rectangles (including	whole turn (total 360°) angles at a point on a	timetables.
1 000 000 and	(columnar	involving decimals by 10, 100 and 1000	number	squares), and including using	straight line and ½ a turn	
determine the	addition and	involving decimals by 10, 100 and 1000	Humber	standard units, square	(total 180°)	
value of each digit	subtraction)	Multiply numbers up to 4 digits by a one- or two-	Read and write decimal numbers as fractions [for	centimetres (cm2) and square	other multiples of 90°	
varao or caon aigit	oubtraction)	digit number using a formal written method,	example, 0.71 = 71/100	metres (m2) and estimate the	other maniples of se	
Round any number	Use rounding to	including long multiplication for two-digit numbers		area of irregular shapes	Use the properties of	
up to 1 000 000 to	check answers	3 · 3 · · · · · · · · · · · · · · · · ·	Recognise and use thousandths and relate	3	rectangles to deduce related	
the nearest 10, 100,	to calculations	Divide numbers up to 4 digits by a one-digit number	them to tenths, hundredths and decimal	Estimate volume [for example,	facts and find missing	
1000, 10 000 and	and determine,	using the formal written method of short division	equivalents	using 1 cm3 blocks to build	lengths and angles	
100 000	in the context of	and interpret remainders appropriately for the		cuboids (including cubes)] and		
	a problem, levels	context	Round decimals with two decimal places to the	capacity [for example, using	Distinguish between	
Solve number	of accuracy		nearest whole number and to one decimal place	water]	regular and irregular	
problems and	0 1 1111	Solve problems involving multiplication and division	B. 1 20		polygons based on	
practical problems	Solve addition	including using their knowledge of factors and multiples,	Read, write, order and compare numbers with	Solve problems involving	reasoning about equal	
that involve all of the above	and subtraction multi-step	squares and cubes	up to three decimal places	converting between units of time	sides and angles.	
the above	problems in	Solve problems involving addition, subtraction,	Add and subtract fractions with the same	Use all four operations to solve	Identify, describe and	
Read Roman	contexts.	multiplication and division and a combination of	denominator and denominators that are multiples	problems involving measure [for	represent the position of a	
numerals to 1000	deciding which	these, including understanding the meaning of the	of the same number	example, length, mass, volume,	shape following a	
(M) and recognise	operations and	equals sign	S. a.o Samo Hambor	money] using decimal notation,	reflection or translation,	
years written in	methods to use	-4	Multiply proper fractions and mixed numbers by	including scaling.	using the appropriate	
Roman numerals	and why.	Solve problems involving multiplication and division,	whole numbers, supported by materials and		language, and know that	
		including scaling by simple fractions and problems	diagrams		the shape has not	
		involving simple rates.			changed.	