Year 5 Mathematics Teacher Assessment   Name: Class:

Number

Place Value

The pupil can:	EOY4	Autumn	Spring	Summer
read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit				
count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000				
interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0				
round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000				
solve number problems and practical problems that involve all of the above				
read Roman numerals to 1,000 (M) and recognise years written in Roman numerals				

(Evidence)

Number

Addition and Subtraction

The pupil can:	EOY4	Autumn	Spring	Summer
add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)				
add and subtract numbers mentally with increasingly large numbers				
use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy				
solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why				

(Evidence)

Number

Multiplication and Division

The pupil can:	EOY4	Autumn	Spring	Summer
identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers				
know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers				
establish whether a number up to 100 is prime and recall prime numbers up to 19				
multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers				
multiply and divide numbers mentally, drawing upon known facts				
divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context				
multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000				
recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3})				
solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes				
solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign				
solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates				

(Evidence)

Number

Fractions

The pupil can:	EOY4	Autumn	Spring	Summer
compare and order fractions whose denominators are all multiples of the same number				
identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths				
recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example,2/5 + 4/5=6/6=1 1/5]				
add and subtract fractions with the same denominator, and denominators that are multiples of the same number				
multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams				
read and write decimal numbers as fractions [for example, 0.71 =71/100]				
recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents				
round decimals with 2 decimal places to the nearest whole number and to 1 decimal place				
read, write, order and compare numbers with up to 3 decimal places				
solve problems involving number up to 3 decimal places				
recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction				
solve problems which require knowing percentage and decimal equivalents of 1/2 , 1/4 , 1/5 , 2/5 , 4/5 and those fractions with a denominator of a multiple of 10 or 25				

(Evidence)

Measurement	The pupil can:	Evidence			
		EOY4	Autumn	Spring	Summer
	convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]				
	understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints				
	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres				
	calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) and square metres (m²), and estimate the area of irregular shapes				
	estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]				
	solve problems involving converting between units of time				
	use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling				

Geometry	Properties of shape	Evidence			
		EOY4	Autumn	Spring	Summer
	The pupil can:				
	identify 3-D shapes, including cubes and other cuboids, from 2-D representations				
	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles				
	draw given angles, and measure them in degrees (°)				
	identify:				
	angles at a point and 1 whole turn (total 360°)				
	angles at a point on a straight line and half a turn (total 180°)				
	other multiples of 90°				
	use the properties of rectangles to deduce related facts and find missing lengths and angles				
	distinguish between regular and irregular polygons based on reasoning about equal sides and angles				
	Position and direction	**Evidence**			
		EOY4	Autumn	Spring	Summer
	The pupil can:				
	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed				

Stats	The pupil can:	Evidence			
		EOY4	Autumn	Spring	Summer
	solve comparison, sum and difference problems using information presented in a line graph				
	complete, read and interpret information in tables, including timetables				

I am working at…	**PKS**	**WTS**	**EXS**	**GDS**
My EOY prediction is…				

When making your judgement, number domains always hold the most weighting and should play the major role in informing your decision.