Key Performance Indicator	Year 5 Milestones - Maths
Number: Number and Place Value	I can read numbers to at least 1,000,000 and determine the value
	of each digit.
	I can write numbers to at least 1,000,000 and determine the value
	of each digit.
	I can order numbers to at least 1,000,000 and determine the
	value of each digit. I can compare numbers to at least 1,000,000 and determine the
	value of each digit.
	I can read Roman numerals to 1,000 (M) and recognise years
	written in Roman numerals.
	I can count forwards in steps of powers of 10 for any given
	number up to 1,000,000.
	I can count backwards in steps of powers of 10 for any given
	number up to 1,000,000.
	I can count forwards and backwards with positive and negative
	whole numbers, including through zero. I can interpret negative numbers in context.
	I can round any number up to 1,000,000 to the nearest 10, 100,
	1,000, 10,000 and 100,000.
	I can reason with place value using Year 5 skills and knowledge.
Number: Addition and Subtraction	I can add numbers mentally with increasingly large numbers.
	I can subtract numbers mentally with increasingly large numbers.
	I can add and subtract numbers with up to 4 digits using the
	formal written methods of columnar addition and subtraction
	where appropriate.
	I can use rounding to check answers to calculations. I can check my answers are accurate and sensible.
	I can reason with addition and subtraction using Year 5 skills and
	knowledge.
Number: Multiplication and Division	I can multiply and divide numbers mentally using multiplication
	facts.
	I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.
	I can multiply numbers up to 4 digits by a one- digit number using
	a formal written method.
	I can use a formal multiplication method up to 4 digits by a 2 digit
	number.
	I can divide numbers up to 4 digits by a one-digit number using
	the formal written method of short division.
	I can divide numbers up to 4 digits by a 1 digit number and record remainders appropriately.
	I can solve problems involving addition, subtraction, multiplication
	and division understanding the meaning of the equals sign.

Number: Multiplication and Division	I can solve problems and involving multiplication and division
	using my knowledge of factors and multiples, squares and cubed
	numbers.
	I can solve problems involving multiplication and division,
	including scaling by simple fractions.
	I can find and identify factors and multiples.
	I can find square and cube numbers.
	I can find factor pairs for a given number.
	I can find common factors of 2 numbers.
	I can explain what a prime number is.
	I can use the vocabulary of prime numbers, prime factors and
	composite (non-prime) numbers.
	I can establish whether a number up to 100 is prime and recall
	prime numbers up to 19.
	I can recognise and use square numbers and cube numbers, and
	the notation for squared (2) and cubed (3).
	I can compare and order fractions whose denominators are all
	multiples of the same number eg, 1/3 2/6 4/9.
	I can recognise mixed numbers and improper fractions.
	I can convert between mixed number and improper fractions and
	write mathematical statements > 1 as a mixed number [for
	example, $2/5 + 4/5 = 6/5 = 11/5$.
	example, 2/3 + 4/3 - 0/3 - 1 1/3.
	I can add and subtract fractions with the same denominator and
	denominators that are multiples of the same number.
	I can multiply proper fractions and mixed numbers by whole
	numbers, using materials and diagrams to help me.
	I can round decimals with two decimal places to the nearest
	whole number and to one decimal place.
Fractions, Decimals and Percentages	I can read, write, order and compare numbers with up to three
	decimal places.
	I can identify, name and write equivalent fractions of a given
	fraction, represented visually, including tenths and hundredths.
	I can read and write decimal numbers as fractions [for example,
	$0.71 = {}^{71}/{}_{100}$].
	I can recognise and use thousandths and relate them to tenths,
	hundredths and decimal equivalents.
	I can recognise that the % symbol means 'parts of 100'.
	I can write percentages as a fraction with denominator 100, and
	as a decimal (1/4 is 25/100 or 0.25).
	I can 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.
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	I can solve problems involving number up to three decimal places.
	I can reason with fractions, decimals and percentages using Year 5
	skills and knowledge.

Geometry: Properties of Shape	I can identify: Angles at a point, on a straight line and multiples of 90 degrees. I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations. I can use the properties of rectangles to find missing lengths and angles. I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles. I know angles are measured in degrees: I can estimate and compare acute, obtuse and reflex angles. I can draw given angles, and measure them in degrees (°).
Measurement	I can convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).
	I can use and approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
	I can use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.
	I can measure and calculate the perimeter of compound shapes in centimetres and metres.
	I can calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square metres(m ²) and estimate the area of irregular shapes.
	I can estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water].
	I can solve problems involving converting between units of time.
	I can reason with measurement using Year 5 skills and knowledge.
Geometry: Position and Direction	I 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.
Statistics	I can complete, read and interpret information in tables, including timetables. I can solve comparison, sum and difference problems using
	information presented in a line graph.