Year 6: Evidence Gathering Grid

Name:		Date/title/book:			Using & Applying
Number and place value	Understand the relationship between powers of 10 from 1 hundredth to 10 million and use this to multiply and divide by 10, 100 and 1,000.				
	Recognise the place value of each digit in the numbers up to 10 million, including decimal fractions. Compose and decompose numbers up to 10 million using standard and non-standard partitioning.				
	Reason about the location of any number up to 10 million, including decimals fractions, in the linear number system, and round numbers, as appropriate including in contexts.				
	Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.				
Calculation	Represent and explain addition and subtraction problems involving fractions with different denominators, decimals (beyond 2 decimal points) and calculating the interval across 0 in different contexts (graphs, charts, timetables and measuring scales).				
	Represent and explain multiplication, division and ratio problems (including up to four-digit numbers by two-digit numbers, fractions and decimals) in different contexts (including converting between metric and imperial measures). Solve these problems by taking account the number properties (square, prime, common multiples etc.) and appropriately choosing mental or formal written methods.				
	Represent and explain multi-step problems involving addition, subtraction, multiplication and division in different contexts (including finding the mean) and solve these problems taking account of the numbers involved and the order of operations.				
	Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).				
	Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.				
Fractions	Recognise when fractions can be simplified, and use common factors to simplify fractions.				
	Express fractions in a common denomination and use this to compare fractions that are similar in value.				
	Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy.				
	Represent and explain the relationships between decimals, fractions, percentages and ratio and use their understanding to solve problems.				
Geometry	Draw, compose and decompose shapes according to given properties, including dimensions, angles, and area, and solve related problems.				
	Represent and explain how to find the volume of cubes and cuboids and use their understanding of properties (including circles), area and volume to solve problems.				
	Represent and explain positions on a grid with four quadrants and how to reflect and translate shapes and use this knowledge to solve problems.				
	Recognise 3D shapes represented in different ways (including as 2D drawings and nets) and draw accurate 2D shapes using given information (including to form nets) explaining and justifying their thinking.				
Algebra	Explain the use of letters to represent relationships, variables and unknowns in familiar, additive, multiplicative and geometric situations and use their understanding to solve problems involving letters.				

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