I can	Maths – Year 6	✓	Date
Number and place value	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.		
	Round any whole number to a required degree of accuracy.		
	Use negative numbers in context, and calculate intervals across zero.		
	Solve number problems and practical problems that involve all of the above.		
Addition and Subtraction, Multiplication and Division	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.		
	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.		
	Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.		
	Perform mental calculations, including with mixed operations and large numbers.		
	Identify common factors, common multiples and prime numbers.		
	Use their knowledge of the order of operations to carry out calculations involving the four operations.		
	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.		
	Solve problems involving addition, subtraction, multiplication and division.		
	Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.		
Fractions (including decimals and percentages)	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.		
	Compare and order fractions, including fractions >1		
	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.		
	Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ × ½ = 1/8]		
	Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6].		
	Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8].		
	Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.		

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	Multiply one-digit numbers with up to two decimal places by whole numbers.		
	Use written division methods in cases where the answer has up to two decimal places.		
	Solve problems which require answers to be rounded to specified degrees of accuracy.		
	Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.		
Measurement	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.		
	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.		
	Convert between miles and kilometres.		
	Recognise that shapes with the same areas can have different perimeters and vice versa.		
	Recognise when it is possible to use the formulae for area and volume of shapes.		
	Calculate the area of parallelograms and triangles.		
	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3].		
Properties of shape	Draw 2-D shapes using given dimensions and angles.		
	Recognise, describe and build simple 3-D shapes including making nets.		
	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.		
	Illustrate and name parts of a circle, including radius, diameter and circumference and know that the diameter is twice the radius.		
	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.		
Position & direction	Describe positions on the full coordinate grid (all four quadrants).		
	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.		
Statistics	Interpret and construct pie charts and line graphs and use these to solve problems.		
	Calculate and interpret the mean as an average.		
Algebra	Use simple formulae.		
	Generate and describe linear number sequences.		

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	Express missing number problems algebraically.		
	Find pairs of numbers that satisfy number sentences involving two unknowns.		
	Enumerate possibilities of combinations of two variables.		