Year 5 Maths Long-Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
M/O starters	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						interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000					
	2x	**5x**	**10x**	**3x**	**6x**	**4x**	**8x**	**7x**	**9x**	**11x**	**12x**	**recap**
Autumn Term	**Number – add and subtract** add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) add and subtract numbers mentally solve addition and subtraction multi-step problems	**Measure – area and perimeter** measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes		**Number – multiplication and division** multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 multiply and divide numbers mentally drawing upon known facts multiply numbers up to 4 digits by a one digit number using a formal written method divide numbers up to 4 digits by a one-digit number using the formal written method		**Number – fractions** count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10 **identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths** **read and write decimal numbers as fractions [for example, 0.71 =]** **to recognise and find halves of amounts** find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number add and subtract fractions with the same denominator **solving problems with the above too.** **To add and subtract fractions whose denominators are all multiples of the same number**		**Assess week**	**Geometry – angles** 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 one whole turn (total 360) angles at a point on a straight line and 1/2 a turn (total 180) other multiples of 90 use the properties of rectangles to deduce related facts and find missing lengths and angles	

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	3x	6x	4x	8x	7x	7x	9x	9x	11x	11x	12x	12x
Spring Term	**Measure – converting between units** 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		**Number – 4 operations (to also revise Place Value throughout)** recognise and use square numbers and cube numbers, and the notation for squared and cubed identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 solve problems involving addition, subtraction, multiplication and division including using their knowledge of factors and multiples, squares and cubes		**Time/Stats** solve problems involving converting between units of time complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph	**Number – fractions** **identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths** **compare and order fractions whose denominators are all multiples of the same number** **add and subtract fractions with the same denominator, and denominators that are multiples of the same number** **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, + = = 1]** **read and write decimal numbers as fractions [for example, 0.71 =]** recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents **as well as percentages** **Find fractions of amounts/quantities including half of money values (£9.50)**			**Assess week**	**Geometry – shape** identify 3-D shapes, including cubes and other cuboids, from 2-D representations distinguish between regular and irregular polygons based on reasoning about equal sides and angles	**Geometry – position and direction** 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.

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	2x 5x 10x 3x 6x	**3x 6x 4x 8x**	**4x 8x 7x 9x**	**7x 9x 11x 12x**	**Mixed**	**Mixed**	**Mixed**	**Mixed**	**Mixed**	**Mixed**	**Mixed**	**Mixed**
Summer Term	**Number - 4 operation revision** solve problems involving addition, subtraction, multiplication and division including using their knowledge of factors and multiples, squares and cubes	**Measure – volume** estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]	**Number – Fractions and decimals** **identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths** Compare and order fractions whose denominators are all multiples of the same number **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 round decimals with 2 decimal places to the nearest whole number and to 1 decimal place **read and write decimal numbers as fractions [for example, 0.71 =]** read, write, order and compare numbers with up to 3 decimal places recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', **look at finding 5% of a shape with 20 squares for example** and write percentages as a fraction with denominator 100, and as a decimal fraction solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25			**Revision of measure, geometry and statistics:** measure and calculate the perimeter and area of composite shapes identify: angles at a point and one whole turn (total 360) angles at a point on a straight line and 1/2 a turn (total 180) other multiples of 90 complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph identify, describe and represent the position of a shape following a reflection or translation Convert between different units of metric measure		**Assess week**	Consolidation work based on the year **adding/subtracting fractions with different denominators** **simplifying answers using equivalence** **compare and order fractions whose denominators are all multiples of the same number** **subtracting mixed numbers from a whole**

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