

Old Leake Primary Academy Maths Long Term Plan – Year 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Number: place value			Number: Addition and subtraction		Number: Multiplication and division A		Half Term	Half Term	Number: Multiplication and division A	Number: Fractions A			
Spring	Number: Multiplication and division B			Number: Fractions B		Number: Decimals and percentages	Half Term	Number: Decimals and percentages		Measurement: perimeter and area		Statistics		
Summer	Geometry: Shape			Geometry: Position and direction		Number: Decimals	Half Term	Number: Decimals		Number: Negative Numbers	Measurement: Converting Units		Measurement: Volume	

Number and Place Value	AU	SP	SU	Fractions (including decimals and percentages) - continued	AU	SP	SU
• Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit				• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams			
• Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000				• Read and write decimal numbers as fractions [for example, 0.71 = 71/100]			
• Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero				• Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents			
• Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000				• Round decimals with two decimal places to the nearest whole number and to one decimal place			
• Solve number problems and practical problems that involve all of the above				• Read, write, order and compare numbers with up to three decimal places			
• Read Roman numerals to 1000 (M) and recognise years written in Roman numerals				• Solve problems involving number up to three decimal places			
Addition and Subtraction				• Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal			
• Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar)				• 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.			
• Add and subtract numbers mentally with increasingly large numbers				Measures			
• Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy				• Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)			
• Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.				• Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints			
Multiplication and Division				• Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres			
• Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers				• 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			
• Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers				• Estimate volume [for example, using 1 cm ³ blocks to build cuboids (including cubes)] and capacity [for example, using water]			
• Establish whether a number up to 100 is prime and recall prime numbers up to 19				• Solve problems involving converting between units of time			
• Multiply numbers up to 4 digits by a 1 or 2 digit number using a formal written method, including long multiplication for two-digit numbers				• Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.			
• Multiply and divide numbers mentally drawing upon known facts				Properties of Shape			
• Divide numbers up to 4 digits by a 1-digit number using the formal written method of short division; interpret remainders appropriately				• Identify 3-D shapes, including cubes and other cuboids, from 2-D representations			
• Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000				• Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles			
• Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)				• Draw given angles, and measure them in degrees (°)			
• Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes				• 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°) and other multiples of 90°			
• Solve problems involving all four operations and a combination of these, including understanding the meaning of the equals sign				• Use the properties of rectangles to deduce related facts and find missing lengths and angles			
• Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.				• Distinguish between regular and irregular polygons based on reasoning about equal sides and angles			

N.B. – These are **suggested** time frames; if you need to, please spend longer on a block, objectives must be embedded. Consolidation of any learning should focus on place value, the four operations and fractions (inc. decimals and percentages for the older children). Blocks taught should be revisited each term through Cold Maths, lesson starters and when links are made between mathematical concepts e.g. measure and place value. These are curriculum objectives and what you should be teaching from.



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Fractions (including decimals and percentages)				Position and Direction			
• Compare and order fractions whose denominators are all multiples of the same number				• 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.			
• Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths				Statistics			
• 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, $2/5 + 4/5 = 6/5 = 1$]				• Solve comparison, sum and difference problems using information presented in a line graph			
• Add and subtract fractions with the same denominator and denominators that are multiples of the same number				• Complete, read and interpret information in tables, including timetables.			

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