



Maths LTP in Year 6 at Farmilo



	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2
1	Short week: Place value baseline assessment. Arithmetic and Times tables.	1	Number: Addition and Subtraction	1	Number: Ordering decimals, percentages and fractions. Percentages of an amount.	1	Statistics: Bar Charts, Pie Charts and Time.	1	Consolidation: SATs Prep/revision	1	Consolidation: White Rose Bakery Themed Project
2	Number: Place Value	2	Number: Multiples, factors, prime numbers, cubed and square numbers.	2	Number: Equivalent fractions and simplifying Fractions of an amount. <u>Practise SATs Past Papers</u>	2	Statistics: Timetables Measurement: Converting units Miles and Kilometres <u>Practise SATs Past Papers</u>	2	Consolidation: SATs Prep/revision	2	Consolidation: White Rose Bakery Themed Project
3	Number: Place Value	3	Number: Multiplication	3	Number: Adding and Subtracting Fractions Compare and Order.	3	Residential Geometry: 3D shape properties and nets of 3D shapes.	3	Consolidation: SATs Prep/revision	3	Consolidation: White Rose Futures Themed Project
4	Number: Rounding	4	Number: Division	4	Number: Adding and subtracting mixed numbers and improper fractions Multiplying fractions by integers.	4	Geometry: Shape, Angles and triangles Measurement: Perimeter, Area, Volume.	4	SATs Week	4	Consolidation: White Rose Futures Themed Project
5	Number: Rounding	5	Number: Order of operations and estimation. Problem solving including all 4 operations.	5	Number: Multiply fractions by fractions Divide fractions by an integer.	5	Geometry: Angles. Position and direction: Properties of circles.	5	Consolidation: Arithmetic and maths challenges.	5	Transition
6	Number: Place Value and problem solving <u>Practise SATs Past Papers</u>	6	Number: Decimals <u>Practise SATs Past Papers</u>	6	Number: Consolidation - fractions, decimals and percentages. Statistics: Line Graphs	6	Number: Ratio and Proportion. Algebra.			6	Transition
7	Number: Negative Numbers	7	Number: Decimals linking to fractions and percentages.			7	Statistics: Mean, Medium, Mode and Range. <u>Practise SATs Past Papers.</u>			7	Transition



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Year 6			
Place Value	Addition, Subtraction, Multiplication and Division	Fractions (including decimals and percentages)	Ratio and Proportion
Pupils should be taught to: • 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 0 • solve number and practical problems that involve all of the above	Pupils should be taught to: • 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	Pupils should be taught to: • 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, $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$] • divide proper fractions by whole numbers [for example, $\frac{1}{2} \div 2 = \frac{1}{4}$] • associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]	Pupils should be taught to: • solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts • solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison • solve problems involving similar shapes where the scale factor is known or can be found • solve problems involving unequal sharing and grouping using knowledge of fractions and multiples



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	calculations involving the 4 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	• identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places • multiply one-digit numbers with up to 2 decimal places by whole numbers • use written division methods in cases where the answer has up to 2 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	Geometry	Statistics	Algebra
Pupils should be taught to: • solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate • use, read, write and convert between	Pupils should be taught to: • 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,	Pupils should be taught to: • interpret and construct pie charts and line graphs and use these to solve problems • calculate and interpret the mean as an average	Pupils should be taught to: • use simple formulae • generate and describe linear number sequences • express missing number problems algebraically • find pairs of numbers that satisfy an equation with 2 unknowns • enumerate possibilities of combinations of 2 variables



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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 3 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 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	quadrilaterals, and regular polygons • illustrate and name parts of circles, 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 • describe positions on the full coordinate grid (all 4 quadrants) • draw and translate simple shapes on the coordinate plane, and reflect them in the axes		
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cubic metres (m^3), and
extending to other units
[for example, mm^3 and
 km^3]