Acomb First School Year 4 Long term Mathematics Mastery Curriculum

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	Week 13
Term 1	NUMBER Place value	NUMBER Place value	NUMBER Place value	NUMBER Addition and subtraction	NUMBER Addition and subtraction	NUMBER Addition and subtraction	NUMBER Addition and subtraction	NUMBER Multiplication and division	NUMBER Multiplication and division	NUMBER Multiplication and division	NUMBER Multiplication and division	NFER test week	GEOMETRY Property of shape
Term 2	NUMBER Fractions and decimals	NUMBER Fractions and decimals	NUMBER Fractions and decimals	NUMBER Fractions and decimals	MEASURES Time	MEASURES Time	NUMBER Multiplication and division	NUMBER Multiplication and division	MEASURES Length	MEASURES Length	Assessment		
Term 3	MEASURES Weight and capacity	MEASURES Weight and capacity	GEOMETRY Direction	GEOMETRY Direction	STATISTICS	NFER test week	NUMBER Addition and subtraction	NUMBER Addition and subtraction	NUMBER Multiplication and division	NUMBER Multiplication and division	NUMBER Fractions and decimals	GEOMETRY Property of shape	GEOMETRY Property of shape

Mastery of number, place value and the 4 number operations and fractions, in term 1 will ensures a secure understanding and develops confidence. This will allow number knowledge to be better applied to other areas of maths. Although the main focus is number in the first term opportunities should be found to apply number teaching to real life situations and problem solving. Equally place value and the four operations of number will be constantly revisited in other areas of maths.

All units of work should have fluency, reasoning and problem solving elements. A greater weighting to reasoning and problem solving will be given in the final term providing opportunity for more able pupils to demonstrate GD and for other children to consolidate their learning.

Where ever possible opportunities should be found to apply maths to topic work ensuring a maths rich curriculum. Statistics and Measures will be covered in science and topic work

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Year Group			4				Term		1	
Week 1	Week 2	Week 3	Week 4	Week 5	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12

Number – Place value

Count in multiples of 6, 7, 9. 25 and 1000.

Find 1000 more or less than a given number.

Count backwards through zero to include negative numbers.

Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones)

Order and compare numbers beyond 1000. Identify, represent and estimate numbers using different representations.

Round any number to the nearest 10, 100 or 1000.

Solve number and practical problems that involve all of the above and with increasingly large positive numbers.

Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.

Number – Addition and subtraction

Add and subtract numbers with up to 4 digits using the formal written methods of column addition and subtraction where appropriate.

Estimate and use inverse operations to check answers to a calculation.

Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why

Number – Multiplication and Division

Recall and use multiplication and division facts for multiplication tables up to 12 x 12.

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number using formal written layout.

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Nfer Tests

Geometry Property of shapes

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

Identify lines of symmetry in 2D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry.

Plot specified points and draw sides to complete a given polygon.

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Year Group			4			Term		2		
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11

Number – Fractions and Decimals	Measures – Time	Number – Multiplication and Division	Measures -Length	Assessment
Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. **Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.** **Count up and down in tenths.** **Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers**	Convert between different units of measure eg hour to minute. Read, write & convert time between analogue and digital 12 and 14 hour clocks. Solve problems involving converting from hours to minutes; minutes to seconds; years to mo	Recall and use multiplication and division facts for multiplication tables up to 12 x 12. Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Convert between different units of measure [for example, kilometre to metre] Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Find the area of rectilinear shapes by counting squares	

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Year Group			4		Term			3				
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

| Measures- Weight and Capacity

Convert between different units of measure (e.g. kilogram to gram; litre to millilitre)

Estimate, compare and calculate different measures | Geometry – direction and angles

Describe positions on a 2D grid as coordinates in the first quadrant.

Describe movements between positions as translations of a given unit to the left/ right and up/ down.

Identify acute and obtuse angles and compare and order angles up to two right angles by size. | Statistics

Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. | Assessment | Number – Addition and subtraction

Add and subtract numbers with up to 4 digits using the formal written methods of column addition and subtraction where appropriate.

Estimate and use inverse operations to check answers to a calculation.

Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why | Number – Multiplication and Division

Recall and use multiplication and division facts for multiplication tables up to 12 x 12.

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number using formal written layout.

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects | Number – Fractions and Decimals

Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.

Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Count up and down in tenths.

Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers | Geometry Property of shapes

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

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