

John Fletcher of Madeley Primary School
 Medium term planning – New Curriculum 2014

Year 4

Spring Term

Mathematical aspect		Curriculum statement
U & A	Unit 1 Number, place value and rounding, number sense	<ul style="list-style-type: none"> ● To recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones). ● To identify, represent and estimate numbers using different representations. ● To order and compare numbers beyond 1000. ● To round any number to the nearest 10, 100 or 1000. ● To count in multiples of 6, 7, 9, 25, 1000. ● To find 1000 more or less than a given number. ● To count backwards through zero to include negative numbers.
U & A	Unit 2 Mental and written addition and subtraction	<ul style="list-style-type: none"> ● To add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate. ● To estimate and use inverse operations to check answers to a calculation. ● To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. ● To estimate, compare and calculate different measures, including money in pounds and pence.
U & A	Unit 3 Mental and written multiplication	<ul style="list-style-type: none"> ● To recall multiplication and division facts for multiplication tables up to 12×12. ● To 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. ● To multiply two-digit and three-digit numbers by a one-digit number using formal written layout. ● To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects.
U & A	Unit 4 Mental and written division	<ul style="list-style-type: none"> ● To recall multiplication and division facts for multiplication tables up to 12×12. ● To 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. ● To develop fluency in the formal written method of short division with exact answers
U & A	Unit 5 Fractions	<ul style="list-style-type: none"> ● To count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten. ● To 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. ● To recognise and show, using diagrams, families of common equivalent fractions. ● To add and subtract fractions with the same denominator.
U & A	Unit 6 Fractions and decimals	<ul style="list-style-type: none"> ● To recognise and write decimal equivalents of any number of tenths or hundredths. ● To recognise and write decimal equivalents to $1/4$; $1/2$; $3/4$. ● To 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 units, tenths and hundredths. ● To round decimals with one decimal place to the nearest whole number. ● To compare numbers with the same number of decimal places up to two decimal places.

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			<ul style="list-style-type: none"> ● To solve simple measure and money problems involving fractions and decimals to two decimal places.
U & A	Unit 7	Measurement: area and perimeter	<ul style="list-style-type: none"> ● To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. ● To find the area of rectilinear shapes by counting squares.
U & A	Unit 8	Mental calculation: all four operations	<ul style="list-style-type: none"> ● To estimate and use inverse operations to check answers to a calculation. ● To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. ● To recall multiplication and division facts for multiplication tables up to 12×12. ● To recognise and use factor pairs and commutativity in mental calculations. ● To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects.
U & A	Unit 9	Written addition and subtraction	<ul style="list-style-type: none"> ● To add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate. ● To estimate and use inverse operations to check answers to a calculation. ● To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
U & A	Unit 10 & 11	Geometry: properties of shape, position and direction	<ul style="list-style-type: none"> ● To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. ● To identify acute and obtuse angles and compare and order angles up to two right angles by size. ● To describe positions on a 2D grid as coordinates in the first quadrant. ● To describe movements between positions as translations of a given unit to the left/right and up/down. ● To plot specified points and draw sides to complete a given polygon.
U & A	Unit 12	Statistics	<ul style="list-style-type: none"> ● To interpret and present discrete data using bar charts and continuous data using time graphs. ● To solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs.