

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

Year 4

Summer Term

Mathematical aspect		Curriculum statement
U & A	Unit 1 Place value, comparing and ordering	<ul style="list-style-type: none"> <li>● To recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).</li> <li>● To identify, represent and estimate numbers using different representations.</li> <li>● To order and compare numbers beyond 1000.</li> <li>● To round any number to the nearest 10, 100 or 1000.</li> <li>● To find 1000 more or less than a given number.</li> <li>● To count backwards through zero to include negative numbers.</li> <li>● To solve number and practical problems that involve all of the above and with increasingly large positive numbers.</li> <li>● To 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. (Linked to Roman topic work as appropriate.)</li> </ul>
U & A	Unit 2 Mental addition and subtraction and measures (use measures as a context for problems)	<ul style="list-style-type: none"> <li>● To estimate and use inverse operations to check answers to a calculation.</li> <li>● To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> <li>● To estimate, compare and calculate different measures, including money in pounds and pence.</li> </ul>
U & A	Unit 3 Written addition and subtraction and measures	<ul style="list-style-type: none"> <li>● To add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate.</li> <li>● To estimate and use inverse operations to check answers to a calculation.</li> <li>● To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>
U & A	Unit 4 Fractions: related to division	<ul style="list-style-type: none"> <li>● To count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten.</li> <li>● 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.</li> </ul>
U & A	Unit 5 Mental and written multiplication and division	<ul style="list-style-type: none"> <li>● To recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> <li>● 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.</li> <li>● To recognise and use factor pairs and commutativity in mental calculations.</li> <li>● To multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> <li>● To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>

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U & A	Unit 6	Measurement: conversion of units (capacity)	<ul style="list-style-type: none"> <li>● To convert between different units of measure [for example, kilometre to metre; hour to minute].</li> </ul>
U & A	Unit 7	Measurement : time	<ul style="list-style-type: none"> <li>● To read, write and convert time between analogue and digital 12- and 24-hour clocks.</li> <li>● To solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>
U & A	Unit 8	Mental calculation: all four operations	<ul style="list-style-type: none"> <li>● To estimate and use inverse operations to check answers to a calculation.</li> <li>● To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> <li>● To recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> <li>● To recognise and use factor pairs and commutativity in mental calculations.</li> <li>● To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
U & A	Unit 9	Written addition and subtraction	<ul style="list-style-type: none"> <li>● To add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate.</li> <li>● To estimate and use inverse operations to check answers to a calculation.</li> <li>● To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>
U & A	Unit 10	Geometry: symmetry	<ul style="list-style-type: none"> <li>● To complete a simple symmetric figure with respect to a specific line of symmetry.</li> </ul>
U & A	Unit 11	Geometry: classification	<ul style="list-style-type: none"> <li>● To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> </ul>
U & A	Unit 12	Statistics	<ul style="list-style-type: none"> <li>● To interpret and present discrete data using bar charts and continuous data using time graphs.</li> <li>● To solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs.</li> </ul>