

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

Year 2

Summer Term

Mathematical aspect			Curriculum statement
U & A	Unit 1	Number and place value: partitioning and rearranging	<ul style="list-style-type: none"> ● To recognise the place value of each digit in a 2-digit number (tens, ones). ● To identify, represent and estimate numbers using different representations, including base 10. ● To compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs. ● To read and write numbers to at least 100 in numerals and in words. ● To use place value and number facts to solve problems.
U & A	Unit 2	Addition and subtraction: using partitioning and counting on/back strategies	<ul style="list-style-type: none"> ● To recognise the place value of each digit in a 2-digit number (tens, ones). ● To use place value and number facts to solve problems. ● Applying their increasing knowledge of mental and written methods. . ● To show that addition can be done in any order (commutative) and subtraction cannot. ● To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.
U & A	Unit 3	Multiplication and division: a using times tables facts and inverse	<ul style="list-style-type: none"> ● To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. ● To recognise and use the inverse relationship between multiplication and division in calculations. ● To solve one-step problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. <p><i>Pupils are introduced to the multiplication tables. They practise to become fluent in the 2, 5 and 10 multiplication tables and connect them to each other. They connect the 10 multiplication table to place value, and the 5 multiplication table to the divisions on the clock face. They begin to use other multiplication tables and recall multiplication facts, including using related division facts to perform written and mental calculations.</i></p>
U & A	Unit 4	Fractions: finding fractions of quantities, shapes and sets of objects	<ul style="list-style-type: none"> ● To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. ● To write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of two quarters and one half.
U & A	Unit 6	Measures: length, mass, capacity linked to fractions	<ul style="list-style-type: none"> ● To choose and use appropriate standard units to estimate and measure length/ height in any direction (m/cm/mm); mass (kg/g); temperature ($^{\circ}$C); volume and capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels. ● To compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$.
U & A	Unit 7	Geometry: properties of shapes	<ul style="list-style-type: none"> ● To identify and describe the properties of 2D and 3D shapes, including the number of sides, symmetry in a vertical line, edges, vertices, and faces. ● To identify 2D shapes on the surface of 3D shapes, for example circle on a cylinder and a triangle on a pyramid. ● To compare and sort common 2D and 3D shapes and everyday objects.

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U & A	Unit 8	Measurement: money	<ul style="list-style-type: none"> ● To find different combinations of coins to equal the same amounts of money ● To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
U & A	Unit 9	Measurement: time	<ul style="list-style-type: none"> ● To tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. ● To know the number of minutes in an hour and the number of hours in a day.
U & A	Unit 10	Statistics: solving problems that involve collecting data in tallies, tables and pictograms	<ul style="list-style-type: none"> ● To interpret and construct simple pictograms, tally charts, block diagrams and simple tables. ● To ask and answer simple questions by counting the number of object in each category and sorting the categories by quantity. ● To ask and answer questions about totalling and compare categorical data.
U & A	Unit 11	Geometry: position and direction	<ul style="list-style-type: none"> ● To use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise) and movement in a straight line.
U & A	Unit 12	Calculation: all four operations	<ul style="list-style-type: none"> ● Solve problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems ● Solve problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays.