

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

Year 6

Summer Term

Mathematical aspect			Curriculum statement
U & A	Unit 1	Solving problems involving numbers	<ul style="list-style-type: none"> ● To read, write, order and compare numbers at least to 10,000,000 and determine the value of each digit. ● To round any whole number to a required degree of accuracy. ● To use negative numbers in context, and calculate intervals across zero. ● To solve number problems and practical problems that involve all of the above.
U & A	Unit 2	Adding and subtracting large and small numbers	<ul style="list-style-type: none"> ● To perform mental calculations, including with mixed operations and large numbers. ● To solve addition and subtraction multi-step problems in contexts, deciding which operations to use and why. ● To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
U & A	Unit 3	Long multiplication and division	<ul style="list-style-type: none"> ● To multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written methods of long multiplication. ● To divide numbers up to 4 digits by a two-digit whole number using the formal written method of short division where appropriate, interpreting remainders according to the context. ● To divide numbers up to 4 digits by two digit whole numbers using the formal written method of long division and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context. ● To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
U & A	Unit 4	Calculating with fractions: multiplication & division	<ul style="list-style-type: none"> ● To multiply simple pairs of proper fractions, writing the answer in its simplest form. ● To associate a fraction with division and calculate decimal fraction equivalents.
U & A	Unit 5	Problems involving percentages, fractions and decimals	<ul style="list-style-type: none"> ● To solve problems involving the calculation of percentages of whole numbers or measures and the use of percentages for comparison. ● To recall and use equivalences between simple fractions, decimals and percentages including in different contexts.
U & A	Unit 6	Measurement: Problems involving measures	<ul style="list-style-type: none"> ● To solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate. ● To use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a large unit and vice versa, using decimal notation to three decimal places.

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U & A	Unit 7	Geometry: nets	<ul style="list-style-type: none"> ●To recognise, describe and build simple 3-D shapes, including making nets
U & A	Unit 8	Algebra	<ul style="list-style-type: none"> ●To use simple formulae. ●To generate and describe linear number sequences. ●To express missing number problems algebraically. ●To find pairs of numbers that satisfy an equation with two unknowns. ●To enumerate possibilities of combinations of two variables.
U & A	Unit 9	Ratio & Proportion	<ul style="list-style-type: none"> ●To solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts ●To solve problems involving similar shapes where the scale factor is known or can be found. ●To solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
U & A	Unit 10	Geometry: position and direction	<ul style="list-style-type: none"> ●To describe positions on the full coordinate grid (all four quadrants) ●To draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
U & A	Unit 11	Measurement: Solving problems in the context of measures	<ul style="list-style-type: none"> ● To solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places, where appropriate. ● To use read, write and convert between 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 three decimal places.
U & A	Unit 12	Statistics: Mean average	<ul style="list-style-type: none"> ●To interpret and construct pie charts and line graphs and use these to solve problems. ● To calculate and interpret the mean as an average.