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

Year 4 Autumn Term

Mathematical aspect			Curriculum statement
U & A	Unit 1	Number, place value and rounding	● 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.
U & A	Unit 2	Mental addition and subtraction	● To add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate. ● To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
U & A	Unit 3 & 4	Multiplication and division: facts and mental to written methods	● To recall multiplication 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 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 5	Geometry: properties of shapes	● To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. ● To identify lines of symmetry in 2D shapes presented in different orientations. ● To complete a simple symmetric figure with respect to a specific line of symmetry.
U & A	Unit 6	Measurement	● To convert between different units of measure (for example, kilometre to metre; hour to minute). ● To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. ● To estimate, compare and calculate different measures, including money in pounds and pence.
U & A	Unit 7	Mental and written addition and subtraction	● 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 8	Multiplication and division	● To recall multiplication 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 recognise and use factor pairs and commutativity in mental calculations. ● 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 9	Fractions	●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.
U & A	Unit 10	Geometry	●To describe positions on a 2D grid as coordinates in the first quadrant. ● To plot specified points and draw sides to complete a given polygon. ● 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.
U & A	Unit 11	Statistics	● To interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. ● To solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs.
U & A	Unit 12	Measurement: Time	●To read, write and convert time between analogue and digital 12- and 24-hour clocks. ● To solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.