'Assessing Without Levels' ~ <i>Progress & Attainment Against Expe</i>					
lathematics Curriculum 2014: Year 4					
	Emerging	Expected	Exceeding		
Numbers & the number system					
Count in multiples of 6, 7, 9, 25 and 1000.					
Find 1000 more or less than a given number.					
Count backwards through zero to include negative numbers.					
 Recognise the place value of each digit in a four-digit number (THTU, HTU, TU, and U). 					
Order and compare numbers beyond 1000.					
Identify, represent and estimate numbers using different representations.		***************************************			
Round any number to the nearest 10, 100 or 1000.					
Solve number and practical problems that involve all of the above and with increasingly large positive numbers.					
 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. 					
Calculation ~ addition & subtraction					
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.					
Estimate and use inverse operations to check answers to a calculation.					
 Solve + and - two-step problems in contexts, deciding which operations and methods to use & why. 					
Calculation ~ multiplication & division					
Recall multiplication and division facts up to 12 x 12					
 Use place value, known and derived facts to multiply & divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. 					
Recognise and use factor pairs and commutativity in mental calculations.					
 Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. 					
 Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 					
Calculation ~ Fractions, Decimals & Percentages					
Recognise and show using diagrams, families of common equivalent fractions					
 Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten. 					
 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. 	-				
Add and subtract fractions with the same denominator					
Recognise and write decimal equivalents of any number of tenths or hundredths.					
 Recognise & write decimal equivalents to ¹/₄; ¹/₂; ³/₄ 					
 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 ones, tenths and hundredths 					
Round decimals with one decimal place to the nearest whole number			,,		
 Compare numbers with the same number of decimal places up to two decimal places 					

Solve simple measure and money problems involving fractions and decimals to two decimal places.		
Measures		
Convert between different units of measure (e.g. kilometre to metre; hour to minute)		
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	:	
Find the area of rectilinear shapes by counting squares.		
Estimate, compare and calculate different measures, including money in pounds and pence.		
Read, write and convert time between analogue and digital 12 and 24-hour clocks.		
 Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 		
Shape and Space		
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes		
Identify acute and obtuse angles and compare and order angles up to two right angles by size		
Identify lines of symmetry in 2-D shapes presented in different orientations		
Complete a simple symmetric figure with respect to a specific line of symmetry.		
Position and direction		
Describe positions on a 2-D grid as coordinates in the first quadrant		
Describe movements between positions as translations of a given unit to the left/right and up/down		
Plot specified points and draw sides to complete a given polygon.		
Statistics		
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs		
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.		