Blue year 4

Red year 5

Purple year 6

1.	Number, Place Value, Approximation and Estimation/Rounding			
	I can count in multiples of 6, 7, 9, 25 and 1,000.			
	I can order and compare numbers beyond 1,000.			
	I can find 1,000 more or less than a given number.			
	I can recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens, ones).			
	I can read Roman numerals to 100.			
	I can identify, represent and estimate numbers using different representations.			
	I can round any number to the nearest 10, 100 or 1,000.			
	I can count backwards through zero to include negative numbers.			
	I can solve number and practical problems.			
	Calculations			
	I can add and subtract numbers (up to 4-digits) using column addition and subtraction.			
	I can estimate and use inverse operations to check answers in a calculation.			
	I can solve addition and subtraction 2-step problems in contexts, deciding which operations and methods to use and why.			
	I can recall multiplication and division facts up to 12 x 12.			
	I can multiply and divide mentally using place value, known and derived facts.			

I can multiply 2 and 3 digit numbers by a 1-digit number using a formal written method.				
I can solve problems involving multiplying and adding.				
Fractions, Decimals and Percentages				
I can count up and down in hundredths.				
I know that hundredths are when dividing an object by a hundred and dividing tenths by ten.				
I can recognise and show, using diagrams, families of common equivalent fractions.				
I can add and subtract fractions within the same denominator.				
I can recognise and write decimal equivalents to 1/4, 1/2 and $\frac{3}{4}$.				
I can recognise and write decimal equivalents of any number of tenths or hundredths.				
I can round decimals with 1 decimal place to the nearest whole number.				
I can compare numbers with the same number of decimal places up to 2 decimal places.				
I know that when dividing a 1-digit or 2-digit number by 10 and 100, the values of the digits in the answer are ones, tenths and hundredths.				
I can solve problems involving increasingly harder fractions to divide quantities.				
I can solve simple measure and money problems involving fractions and decimals to 2 decimal places.				
Measurement				
I can compare, estimate and calculate different measures, including money in pounds and pence.				

	I can read, write and convert time between analogue and digital 12 hour clocks.			
	I can read, write and convert time between analogue and digital 24 hour clocks.			
	I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.			
2.	*I can convert between different units of measurements (km to m, hours to minutes).*			
	I can measure and calculate the perimeter of a straight lined shape in cm and m.			
	I can find the area of a straight lined shape by counting squares.			
	Geometry – Properties of Shape			
	I can compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes.			
	I can identify lines of symmetry in 2D shapes presented in different orientations.			
	I can complete a simple symmetric figure with a specific line of symmetry.			
	I can identify acute and obtuse angles and compare and order angles up to 180°.			
	Geometry – Position and Direction			
	I can describe movements between positions as translations (left/right, up/down).			
	I can describe positions on a 2D grid as coordinates in the first quadrant.			
	I can plot specified points and draw sides to complete a given polygon.			
	Statistics			
	I can interpret and present data, using appropriate charts/graphs.			

	I can solve comparison, sum and difference problems, using information in bar charts, pictograms, tables and other graphs.				
	Number, Place Value, Approximation and Estimation/Rounding				
5.	I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.				
	I can read, write, order and compare numbers to at least 1,000,000.				
	I know the value of each digit in numbers up to 1,000,000.				
	I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.				
	I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.				
	I can interpret negative numbers in context.				
	I can count forwards and backwards with positive and negative whole numbers.				
	I can solve number problems and practical problems with the above.				
	Calculations				
	I can add and subtract numbers (with more than 4-digits) mentally and including using formal written methods.				
	I can use rounding to check answers to calculations.				
	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.				
	I can identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers.				

	I can use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.			
	I can establish whether a number up to 100 is prime and the prime numbers up to 19.			
	I can recognise and use square numbers and cube numbers, and use cm² and cm³.			
	I can multiply and divide numbers mentally drawing on known facts.			
	I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.			
	I can multiply numbers up to 4 digits by a 1 or 2-digit number using a formal written method, including long multiplication for 2-digit numbers.			
	I can divide numbers up to 4 digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context.			
	I can solve problems involving multiplication and division using knowledge of factors and multiples, squares and cubes.			
	I can solve problems involving +, -, x, ÷ and =.			
	I can solve problems involving multiplication and division including scaling by simple fractions and problems.			
	Fractions, Decimals and Percentages			
	I can recognise mixed numbers and improper fractions and convert from one form to the other.			
	I can identify, name and write equivalent fractions of a given fraction.			
	I can compare and order fractions whose denominators are multiples of the same number.			

	I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.			
	I can multiply proper fractions and mixed numbers by whole numbers.			
	I can read and write decimal numbers as fractions (e.g. 0.71 = 71/100).			
	I can recognise and can use thousandths and relate them to tenths, hundredths and decimal equivalents.			
	I can round decimals with 2 decimal places to the nearest whole number and 1 decimal place.			
	I can read, write, order and compare numbers with up to 3 decimal places and solve problems.			
	I can recognise the percent symbol (%) and know this is 'parts per hundred'.			
	I can write percentages as a fraction with denominator hundred, and as a decimal.			
	I can solve problems which require knowing percentage/decimal equivalents of ½, ¼, 1/5, 2/5, 4/5 & those fractions with a denominator or a multiple of 10 or 25.			
Measurement				
	I can solve problems involving converting between units of time.			
	I can convert between different units of metric measure.			
	I can understand and use approximate equivalences between metric units and common imperial units.			
	I can measure and calculate the perimeter of composite rectilinear shapes (several straight-lined shapes which make one) in cm and m.			

	I can calculate and compare the area of rectangles (inc. squares), and including using standard units (cm² and m²) to estimate the area of irregular shapes.				
	I can estimate volume and capacity.				
3.	I can use all four operations to solve problems.				
	Geometry – Properties of Shape				
	I can use the properties of rectangles to deduce related facts and find missing lengths and angles.				
	I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.				
	I can identify 3D shapes, including cubes and other cuboids, from 2D representations.				
	I know angles are measured in degrees.				
	I can estimate and compare acute, obtuse and reflex angles.				
	I can identify angles at a point and one whole turn.				
	I can identify angles at a point on a straight line and ½ a turn.				
	I can identify other multiples of 90°.				
	I can draw given angles and measure them in degrees.				
	Geometry – Position and Direction				
	I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.				
	Statistics				
	I can complete, read and interpret information in tables, including timetables.				

I can solve comparison, sum and difference problems using information presented in a line graph.			
Number, Place Value, Approximation and Estimation/Rounding			
I can read, write, order and compare numbers up to 10,000,000.			
I can determine the value of each digit in numbers up to 10,000,000.			
I can round any whole number.			
I can use negative numbers in context, and calculate intervals across zero.			
I can solve number problems and practical problems with the above.			
Calculations			
I can use estimation to check answers to calculations.			
I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.			
I can identify common factors, common multiples and prime numbers.			
I can perform mental calculations, including with mixed operations and large numbers.			
I can multiply multi-digit numbers up to 4 digits by a 2-digit whole number using the formal written method of long multiplication.			
I can divide numbers up to 4 digits by a 2-digit whole number using the formal written long method, and interpret remainders according to the context.			
I can divide numbers up to 4 digits by a 2-digit number using the formal written short method, interpreting remainders according to context.			

I can solve problems involving addition, subtraction, multiplication and division.	
I can use my knowledge of the order of operations to carry out calculations involving the four operations (BIDMAS).	

Fractions, Decimals and Percentages

I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.	
I can compare and order fractions, including fractions >1.	
I can add and subtract fractions with different denominators and mixed numbers.	
I can multiply simple proper fractions, writing the answer in the simplest form.	
I can divide proper fractions by whole numbers.	
I can associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. three-eighths).	
I can identify the value of each digit to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places.	
I can multiply 1-digit numbers with up to 2 decimal places by whole numbers.	
I can use written division methods in cases where the answer has up to 2 decimal places.	
I can solve problems which require answers to be rounded.	
I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	

Ratio and proportion			
I can solve problems involving the relative sizes of two quantities, where missing values can be found using integer multiplication and division facts.			
I can solve problems involving the calculation of percentages and the use of percentage comparisons.			
I can solve problems involving similar shapes where the scale factor is known or can be found.			
I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.			
Algebra			
I can express missing number problems algebraically.			
I can use a simple formula.			
I can generate and describe linear number sequences.			
I can find pairs of numbers that satisfy an equation with two unknowns.			
I can enumerate possibilities of combinations of two variables.			
Measurement			
I can 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 of up to 3 decimal places.			
I can convert between miles and kilometres.			
I can recognise that shapes with the same areas can have different perimeters and vice versa.			

	I can calculate the area of parallelograms and triangles.			
	I can recognise when it is possible to use the formulae for the area of shapes.			
	I can calculate, estimate and compare volume of cubes and cuboids, using standard units.			
	I can recognise when it is possible to use the formulae for the volume of shapes.			
	I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate.			
	Geometry – Properties of Shape			
	I can compare and classify geometric shapes based on the properties and sizes.			
	I can describe simple 3D shapes.			
	I can draw 2D shapes given dimensions and angles.			
	I can recognise and build simple 3D shapes, including making nets.			
	I can find unknown angles in any triangles, quadrilaterals and regular polygons.			
	I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.			
	I can illustrate and name parts of circles, including radius, diameter and circumference.			
	I can know the diameter is twice the radius.			
	Geometry – Position and Direction			
	I can draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes.			
	I can describe positions on the full co-ordinate grid (all four quadrants).			

	Statistics			
	I can interpret and construct pie charts and line graphs and use these to solve problems			
	I can calculate and interpret the mean as an average.			