Year 6

Number Place Value

I can round any whole number to a required degree of accuracy.	
I can read and write numbers up to 10 000 000.	
I can 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 use negative numbers in context, and calculate intervals across zero.	
I can solve number and practical problems that involve ordering numbers, missing number problems and negative numbers.	

Addition Subtraction, Multiplication and Division

I can add multi digit numbers using the formal written methods.	
I can subtract multi digit numbers using the formal written methods.	
I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication.	
I can divide multi-digit numbers up to 4 digits by a two-digit whole number using division.	
I can interpret remainders as whole numbers, decimal, or by rounding within a context.	
I can complete mental calculations, with mixed operations and large numbers.	
I can identify common factors and common multiples.	
I can identify prime numbers.	
I can use my knowledge of the order of operations to carry out calculations involving the four operations.	
I can use formal methods to solve multi-step word problems, choosing the correct operations to use and why	
I can use estimation to check answers to calculations.	

Fractions

I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination.	
I can compare and order fractions, including fractions greater than 1.	
I can add fractions with different denominators.	
I can subtract fractions with different denominators.	
I can add mixed number fractions.	
I can subtract mixed number fractions.	
I can multiply simple pairs of proper fractions, writing the answer in its simplest form.	
I can divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]	
I can associate a fraction with division and calculate decimal fraction equivalent for a simple fraction.	
I can identify the value of each digit in numbers given to three decimal places.	
I can multiply numbers by 10, 100 and 1000 giving answers up to three decimal places	
I can multiply one-digit numbers with up to two decimal places by whole numbers.	
I can divide numbers by 10, 100 and 1000 giving answers up to three decimal places	
I can use a written method of division in cases where the answer has up to two decimal places.	
I can recall and use equivalences between simple fractions, decimals and percentages.	
I can solve problems which require answers to be rounded to specified degrees of accuracy.	

Ratio and Proportion

I can solve problems involving the relative sizes of two quantities where missing values can be found by using multiplication and division facts I know.	
I can solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and use the percentage for comparison.	
I can solve problems involving similar shapes where the scale factor is known or can be found.	

Algebra

I can express missing number problems algebraically.	
I can use simple formulae.	
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 solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places.	
I can use, read, write and convert between standard units, converting measurements of length to a larger unit and vice versa, using decimal notation to up to 3 decimal places.	
I can use, read, write and convert between standard units, converting measurements of mass to a larger unit and vice versa, using decimal notation to up to 3 decimal places.	
I can use, read, write and convert between standard units, converting measurements of volume to a larger unit and vice versa, using decimal notation to up to 3 decimal places.	
I can use, read, write and convert between standard units, converting measurements of time to a larger unit and vice versa, using decimal notation to 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 recognise when it is possible to use formulae for area and volume of shapes.	
I can calculate the area of parallelograms and triangles.	
I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres and extending into other units: millimetres and kilometres cubed	
Geometry	
I can draw 2-D shapes using given dimensions and angles.	
I can recognise and describe simple 3D shapes.	
I can build simple 3-D shapes, including making nets.	
I can compare and classify geometric shapes based on their properties and sizes.	
I can find unknown angles in triangles, quadrilaterals, regular polygons.	
I can draw and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.	
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 describe positions on a full coordinates grid (all four quadrants)	
I can draw and translate simple 2D shapes on the coordinate plane, and reflect them in the axes	
Statistics	
I can interpret pie charts and use these to solve problems.	
I can interpret line graphs and use these to solve problems.	
I can construct pie charts and use these to solve problems.	
I can construct line graph and use these to solve problems.	
I can calculate and interpret the mean as an average.	

	Emerging	Emerging +	Developing	Developing+	Secure	Secure +
Score	6-12	13-19	20-29	30-35	36-42	43+