

Name:	Seen	Secure	Applied
Number and Place Value			
I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.			
I can round any whole number to a required degree of accuracy.			
I can use negative numbers in context, and calculate intervals across 0.			
I can solve number and practical problems that involve all of the above.			
Addition and Subtraction			
I can perform mental calculations, including with mixed operations and large numbers.			
I can use their knowledge of the order of operations to carry out calculations involving the 4 operations.			
I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why			
I can solve problems involving addition, subtraction.			
I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.			
Multiplication and Division			
I can perform mental calculations, including with mixed operations and large numbers.			
I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.			
I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.			
I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, I can interpreting remainders according to the context.			
I can identify common factors, common multiples and prime numbers.			
I can use their knowledge of the order of operations to carry out calculations involving the 4 operations.			
I can solve problems involving multiplication and division			
I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.			
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 >1 .			
I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.			
I can multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$].			
I can divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$]			
I can associate a fraction with division and calculate decimal fraction equivalents.			
I can solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts.			
I can solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison.			
I can identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal place.			
I can multiply one-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 to specified degrees of accuracy.			
I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.			
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.			
Measurements			
I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate.			
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 to up to 3 decimal places.			
I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate.			
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 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 (cm ³) and cubic metres (m ³), and extending to other units [for example, mm ³ and km ³]			
Geometry			
I can draw 2-D shapes using given dimensions and angles.			
I can recognise, describe and build simple 3-D shapes, including making nets.			
I can describe positions on the full coordinate grid (all 4 quadrants).			
I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes.			
I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.			
I can illustrate 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.			
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.			
Algebra			
I can use simple formulae.			
I can generate and describe linear number sequences.			
I can express missing number problems algebraically.			
I can find pairs of numbers that satisfy an equation with 2 unknowns			
I can enumerate possibilities of combinations of 2 variables.			