Name:	Seen	Secure	Applied
Number and Place Value			
I can read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit			
I can count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000			
I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero			
I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000			
I can solve number problems and practical problems that involve all of the above			
I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.			
Addition and Subtraction			
I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)			
I can add and subtract numbers mentally with increasingly large numbers			
I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy			
I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.			
Multiplication and Division			
I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers			
I can know and 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 recall prime numbers up to 19			
I can multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers			
I can multiply and divide numbers mentally drawing upon known facts			
I can divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context			
I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000			
I can recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)			
I can solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes			
I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign			

I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.			
Fractions			
I can compare and order fractions whose denominators are all multiples of the same number			
I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths			
I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]			
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, supported by materials and diagrams			
I can read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$]			
I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents			
I can round decimals with two decimal places to the nearest whole number and to one decimal place			
I can read, write, order and compare numbers with up to three decimal places			
I can solve problems involving number up to three decimal places			
I can recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal			
I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.			
Measurements			
I can convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)			
I can understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints			
I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres			
I can calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes			
I can estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]			
I can solve problems involving converting between units of time			
I can use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.			

Geometry			
I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations			
I can know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles			
I can draw given angles, and measure them in degrees (o)			
I can identify angles at a point and one whole turn (total 360o), angles at a point on a straight line and 2 1 a turn (total 180o), other multiples of 90o			
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, 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 solve comparison, sum and difference problems using information presented in a line graph			
I can complete, read and interpret information in tables, including timetables.			