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| **STAGE 5 - NUMBER** |
| **Number, Place Value, Approximation and Estimation/Rounding** |
| 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, 1000, 10000 and 100000. |
| 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 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 or a number and common factor pairs 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 1000. |
| 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. |
| 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. |
| **STAGE 5 - SHAPE SPACE AND MEASURES** |
| **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 (cm²and cm³) to estimate the area of irregular shapes. |
| I can estimate volume and capacity. |
| 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 90º. |
| 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. |