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| **Year 5 National Curriculum Programme of Study** |
| **Number and Place Value** |
| I can read, write, order and compare numbers to at least 1 000 000 and know 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 use negative numbers in context; count forwards and backwards with positive and negative whole numbers through 0. |
| I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.  |
| I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals. |
| I can solve number problems and practical problems that involve all of the above. |
| **Addition and Subtraction** |
| I can add and subtract whole numbers with more than 4 digits using formal written methods.  |
| I can add and subtract mentally using increasingly large numbers. |
| I can use rounding to check answers to calculations. |
| I can use addition and subtraction to solve multi –step problems. |
| **Multiplication and Division.**  |
| I can identify multiples and factors including finding all factor pairs and common factors of 2 numbers. |
| I know and use the vocabulary of prime numbers, prime factors and composite. |
| I can establish whether a number 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 divide numbers up to 4 digits by a one or two-digit number using the formal written method of short division and interpret remainders appropriately for the context |
| I can multiply and divide numbers mentally. |
| I can multiply and divide whole numbers and decimals by 10, 100 and 1000. |
| I can recognise and use square and cube numbers and the notation. |
| I can solve X and ÷ problems, scaling by simple fractions and problems involving simple rates.  |
| I can solve problems involving X and ÷ including factors, multiples square and cubes. |
| I can solve problems using all four operations including the understanding of the equals sign.  |
| **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. |
| I can recognise mixed number and improper fractions and convert from one form to another. |
| 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 use thousandths and relate them to tenths, hundredths and decimal equivalents. |
| I can round decimals with 2 decimal places to the nearest whole number & to one decimal place.  |
| I can read, write, order and compare numbers with 3 decimal places. |
| I can solve problems involving numbers up to 3 decimal places |
| I can recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per 100’, and write percentages as a fraction with denominator 100, and as a decimal fraction |
| I can solve problems which require knowing percentage and decimal equivalents of ½ ,1/4,1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25 |
| **Measurement**  |
| I can convert between different units of metric measurement |
| I understand and use approximate equivalences between metric units and imperial units.  |
| I can measure and calculate the perimeter of composite rectilinear shapes in centimetres & metres. |
| I can calculate and compare the area of rectangles (including squares) and the area of irregular shapes.  |
| I can estimate the volume and capacity. |
| I can solve problems involving converting between units of time. |
| I can use all four operations to solve problems involving measure using decimal notation, including scaling. |
| **Geometry (Properties of Shape).**  |
| I can identify 3-D shapes, including cubes and other cuboids from 2-D drawings. |
| I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. |
| I can draw angles and measure them in degrees (o) |
| I can identify angles at a point and one whole turn. |
| I can identify angles at point on a straight line and 1/2 a turn and other multiples of 90 degrees |
| 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. |
| **Geometry (Position and Direction).**  |
| I can identify, describe and represent the position of a shape following a reflection or translation. |
| **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.  |