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| **Number: Place Value** |
| **Counting**   * count backwards through zero to include negative numbers * count in multiples of 6, 7, 9, 25 and 1000 * find 1000 more or less than a given number   **Comparing Numbers**   * order and compare numbers beyond 1000 * *compare numbers with the same number of decimal places up to two decimals places – (copied from fractions)*   **Identifying, representing and estimating numbers**   * identify, represent and estimate numbers using different representations   **Reading and Writing Numbers (including Roman Numerals)**   * read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.   **Understanding Place Value**   * recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) * *find the effect of dividing one or two-digit number by 10 and 100 identifying the value of the digits in the answer as units, tenths and hundredths – (copied from fractions)*   **Rounding**   * round any number to the nearest 10, 100 or 1000 * *round decimals with one decimal place to the nearest whole number – (copied from Fractions)*   **Problem Solving**   * solve number and practical problems that involve all of the above and with increasingly large positive numbers |
| **Number: Addition and Subtraction** |
| **Written Methods**   * add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate   **Inverse Operations, Estimating and Checking Answers**   * estimate and use inverse operations to check answers to a calculation   **Problem Solving**   * solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. |
| **Number: Multiplication and Division** |
| **Multiplication and Division Facts**   * *count in multiples of 6, 7, 9, 25 and 1000 – (copied from Number and Place Value)* * recall multiplication and division facts for multiplication tables up to 12 × 12   **Mental Calculation**   * use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers * recognise and use factor pairs and commutativity in mental calculations   **Written Calculation**   * multiply two-digit and three-digit numbers by a one-digit number using formal written layout   **Properties of numbers: Multiples. Fatprs, Primes, Square and Cube Numbers**   * recognise and use factor pairs and commutativity in mental calculations   **Inverse Operations, Estimating and Checking Answers**   * *estimate and use inverse operations to check answers to a calculation – (copied from Addition and Subtraction)*   **Problem Solving**   * solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. |
| **Number - Fractions** |
| **Counting in fractional steps**   * count up and down in hundredths   **Recognising Fractions**   * recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.   **Comparing Decimals**   * compare numbers with the same number of decimal places up to two decimal places   **Rounding Including Decimals**   * round decimals with one decimal place to the nearest whole number   **Equivalence (Including Fractions, Decimals and Percentages)**   * recognise and show, using diagrams, families of common equivalent fractions * recognise and write decimal equivalents of any number of tenths or hundredths * recognise and write decimal equivalents to ¼, ½, ¾   **Addition and Subtraction of Fractions**   * add and subtract fractions with the same denominator   **Multiplication and Division of Decimals**   * find the effect of dividing a one- or two-digit number by 10 and 100, identifying the  value of the digits in the answer as ones, tenths and hundredths   **Problem Solving**   * solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number * solve simple measure and money problems involving fractions and decimals to two decimal places. |
| **Algebra** |
| **Formulae**   * Perimeter can be expressed algebraically as 2(a+b) where a and b are dimensions in the same unit – (linked with measurement - NSG) |
| **Measurement** |
| **Comparing and Estimating**   * estimate, compare and calculate different measures, including money in pounds and pence   **Measuring and Calculating**   * estimate, compare and calculate different measures, including money in pounds and pence * measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres * find the area of rectilinear shapes by counting squares   **Telling the time**   * read, write and convert time between analogue and digital 12- and 24-hour clocks * solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.   **Converting**   * convert between different units of measure [for example, kilometre to metre; hour to minute] * read, write and convert time between analogue and digital 12- and 24-hour clocks |
| **Geometry: Properties of Shapes** |
| **Identifying shapes and their properties**   * identify lines of symmetry in 2-D shapes presented in different orientations   **Drawing and Contructing**   * complete a simple symmetric figure with respect to a specific line of symmetry.   **Comparing and classifying**   * compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes   **Angles**   * identify acute and obtuse angles and compare and order angles up to two right angles by size |
| **Geometry: Position and Direction** |
| **Position, direction and movement**   * describe positions on a 2-D grid as coordinates in the first quadrant * describe movements between positions as translations of a given unit to the left/right and up/down * plot specified points and draw sides to complete a given polygon. |
| **Statistics** |
| **Interpreting, constructing and presenting data**   * interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.   **Solving Problems**   * solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. |