|  | Number, ratio and proportion, and algebra |  |  |  |  | Measurement, geometry and statistics |  |  |
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|  | AF1-Number, place value, approximation and estimation/rounding | AF2 - Addition, subtraction, multiplication and division (calculations) | AF3 - Fractions, decimals and percentages | AF4 - Ratio and proportion | AF5 - Algebra | AF6-Measurement | AF7 - Geometry - properties of shape | AF8 - Statistics |
|  | - Read, write, order and compare numbers up to 10 000000 6N2 <br> - Determine the value of each digit in numbers up to 10000000 6N3 <br> - Round any whole number to a required degree of accuracy 6N4 <br> - Use negative numbers in context, and calculate intervals across zero 6N5 <br> - Solve number problems and practical problems that involve 6N26N5 6N6 | - Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy 6C3 <br> - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why 6 C4 <br> - Identify common factors, common multiples and prime numbers 6C5 <br> - Perform mental calculations, including with mixed operations and large numbers 6C6 <br> - Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication 6C7a <br> - Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication 6C7b <br> - Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication 6C7c <br> - Solve problems involving addition, subtraction, multiplication and division 6C8 <br> - Use their knowledge of the order of operations to carry out calculations involving the four operations 6C9 | - Use common factors to simplify fractions; use common multiples to express fractions in the same denomination 6F2 <br> - Compare and order fractions, including fractions >1 6F3 <br> - Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions 6F4 <br> - Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1 / 4 \times 1 / 2$ $=1 / 8) \mathbf{6 F 5 a}$ <br> - Divide proper fractions by whole numbers (e.g. $1 / 3 \div 2=$ 1/6) 6F5b <br> - Associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) 6F6 <br> - Identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 giving answers up to three decimal places 6F9a <br> - Identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 giving answers up to three decimal places 6F9b <br> - Use written division methods in cases where the answer has up to two-decimal places 6F9c <br> - Solve problems which require answers to be rounded to specified degrees of accuracy 6F10 <br> - Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts 6 F11 | - Solve problems involving quantities, where missing values can be found by using integer multiplication and division facts 6R1 <br> - Solve problems involving the calculation of percentages (e.g of measures such as $15 \%$ of 360) and the use of percentages for comparison 6R2 <br> - Solve problem involving similar shapes where the scale factor is know can be found $6 R 3$ <br> - Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples 6R4 | - Express missing number problems algebraically 6A1 <br> - Use simple formulae 6A2 <br> - Generate and describe linear number sequences 6A3 <br> - Find pairs of numbers that satisfy an equation with two unknowns 6A4 <br> - Enumerate possibilities of combinations of two variables 6A5 |  | - Compare and classify geometric shapes based on their properties and sizes 6G2a <br> - Describe simple 3-D shapes 6G2b <br> - Draw 2-D shapes using given dimensions and angles 6G3a <br> - Recognise and build simple 3D shapes, including making nets 6G3b <br> - Find unknown angles in any triangles, quadrilaterals and regular polygons 6G4a <br> - Recognise angles where they meet at a point, are on a straight line, or are find missing angles 6G4b <br> - Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius 6 G5 <br> Draw and translate simple shapes on the co-ordinate the axes 6P2 <br> - Describe positions on the full co-ordinate grid (all four quadrants) 6P3 | - Interpret and construct pie charts and line graphs and use these to solve problems 6S1 <br> - Calculate and interpret the mean as an average 6S3 |

