

Year 6 Number, ratio and proportion, and algebra					Measurement, geometry and statistics			
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	
<b>Standard 6</b>	<ul style="list-style-type: none"> <li>• Read, write, order and compare numbers up to 10 000 000 <b>6N2</b></li> <li>• Determine the value of each digit in numbers up to 10 000 000 <b>6N3</b></li> <li>• Round any whole number to a required degree of accuracy <b>6N4</b></li> <li>• Use negative numbers in context, and calculate intervals across zero <b>6N5</b></li> <li>• Solve number problems and practical problems that involve 6N2–6N5 <b>6N6</b></li> </ul>	<ul style="list-style-type: none"> <li>• Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy <b>6C3</b></li> <li>• Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <b>6C4</b></li> <li>• Identify common factors, common multiples and prime numbers <b>6C5</b></li> <li>• Perform mental calculations, including with mixed operations and large numbers <b>6C6</b></li> <li>• Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication <b>6C7a</b></li> <li>• Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication <b>6C7b</b></li> <li>• Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication <b>6C7c</b></li> <li>• Solve problems involving addition, subtraction, multiplication and division <b>6C8</b></li> <li>• Use their knowledge of the order of operations to carry out calculations involving the four operations <b>6C9</b></li> </ul>	<ul style="list-style-type: none"> <li>• Use common factors to simplify fractions; use common multiples to express fractions in the same denomination <b>6F2</b></li> <li>• Compare and order fractions, including fractions <math>&gt;1</math> <b>6F3</b></li> <li>• Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions <b>6F4</b></li> <li>• Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. <math>1/4 \times 1/2 = 1/8</math>) <b>6F5a</b></li> <li>• Divide proper fractions by whole numbers (e.g. <math>1/3 \div 2 = 1/6</math>) <b>6F5b</b></li> <li>• Associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. <math>3/8</math>) <b>6F6</b></li> <li>• 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 <b>6F9a</b></li> <li>• 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 <b>6F9b</b></li> <li>• Use written division methods in cases where the answer has up to two-decimal places <b>6F9c</b></li> <li>• Solve problems which require answers to be rounded to specified degrees of accuracy <b>6F10</b></li> <li>• Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts <b>6F11</b></li> </ul>	<ul style="list-style-type: none"> <li>• Solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication and division facts <b>6R1</b></li> <li>• Solve problems involving the calculation of percentages (e.g. of measures such as 15% of 360) and the use of percentages for comparison <b>6R2</b></li> <li>• Solve problem involving similar shapes where the scale factor is known or can be found <b>6R3</b></li> <li>• Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples <b>6R4</b></li> </ul>	<ul style="list-style-type: none"> <li>• Express missing number problems algebraically <b>6A1</b></li> <li>• Use simple formulae <b>6A2</b></li> <li>• Generate and describe linear number sequences <b>6A3</b></li> <li>• Find pairs of numbers that satisfy an equation with two unknowns <b>6A4</b></li> <li>• Enumerate possibilities of combinations of two variables <b>6A5</b></li> </ul>	<ul style="list-style-type: none"> <li>• Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation of up to three decimal places <b>6M5</b></li> <li>• Convert between miles and kilometres <b>6M6</b></li> <li>• Recognise that shapes with the same areas can have different perimeters and vice versa <b>6M7a</b></li> <li>• Calculate the area of parallelograms and triangles <b>6M7b</b></li> <li>• Recognise when it is possible to use the formulae for the area of shapes <b>6M7c</b></li> <li>• Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (<math>cm^3</math>) and cubic metres (<math>m^3</math>), and extending to other units (e.g. <math>mm^3</math> and <math>km^3</math>) <b>6M8a</b></li> <li>• Recognise when it is possible to use the formulae for the volume of shapes <b>6M8b</b></li> <li>• Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate <b>6M9</b></li> </ul>	<ul style="list-style-type: none"> <li>• Compare and classify geometric shapes based on their properties and sizes <b>6G2a</b></li> <li>• Describe simple 3-D shapes <b>6G2b</b></li> <li>• Draw 2-D shapes using given dimensions and angles <b>6G3a</b></li> <li>• Recognise and build simple 3D shapes, including making nets <b>6G3b</b></li> <li>• Find unknown angles in any triangles, quadrilaterals and regular polygons <b>6G4a</b></li> <li>• Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles <b>6G4b</b></li> <li>• Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius <b>6G5</b></li> <li>• Draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes <b>6P2</b></li> <li>• Describe positions on the full co-ordinate grid (all four quadrants) <b>6P3</b></li> </ul>	<ul style="list-style-type: none"> <li>• Interpret and construct pie charts and line graphs and use these to solve problems <b>6S1</b></li> <li>• Calculate and interpret the mean as an average <b>6S3</b></li> </ul>