Mathematics assessment guidelines

Name of child: Class:

	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
Standard 6	• Read, write, order and compare numbers up to 10 000 000 **6N2** • Determine the value of each digit in numbers up to 10 000 000 **6N3** • Round any whole number to a required degree of accuracy **6N4** • Use negative numbers in context, and calculate intervals across zero **6N5** • Solve number problems and practical problems that involve 6N2–6N5 **6N6**	• Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy **6C3** • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why **6C4** • Identify common factors, common multiples and prime numbers **6C5** • Perform mental calculations, including with mixed operations and large numbers **6C6** • Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication **6C7a** • Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication **6C7b** • Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication **6C7c** • Solve problems involving addition, subtraction, multiplication and division **6C8** • 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** • Compare and order fractions, including fractions >1 **6F3** • Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions **6F4** • Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 × 1/2 = 1/8) **6F5a** • Divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6) **6F5b** • Associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) **6F6** • 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** • 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** • Use written division methods in cases where the answer has up to two-decimal places **6F9c** • Solve problems which require answers to be rounded to specified degrees of accuracy **6F10** • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts **6F11**	• Solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication and division facts **6R1** • Solve problems involving the calculation of percentages (e.g of measures such as 15% of 360) and the use of percentages for comparison **6R2** • Solve problem involving similar shapes where the scale factor is known or can be found **6R3** • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples **6R4**	• Express missing number problems algebraically **6A1** • Use simple formulae **6A2** • Generate and describe linear number sequences **6A3** • Find pairs of numbers that satisfy an equation with two unknowns **6A4** • Enumerate possibilities of combinations of two variables **6A5**	• 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 **6M5** • Convert between miles and kilometres **6M6** • Recognise that shapes with the same areas can have different perimeters and vice versa **6M7a** • Calculate the area of parallelograms and triangles **6M7b** • Recognise when it is possible to use the formulae for the area of shapes **6M7c** • Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm^3) and cubic metres (m^3), and extending to other units (e.g. mm^3 and km^3) **6M8a** • Recognise when it is possible to use the formulae for the volume of shapes **6M8b** • Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate **6M9**	• Compare and classify geometric shapes based on their properties and sizes **6G2a** • Describe simple 3–D shapes **6G2b** • Draw 2–D shapes using given dimensions and angles **6G3a** • Recognise and build simple 3D shapes, including making nets **6G3b** • Find unknown angles in any triangles, quadrilaterals and regular polygons **6G4a** • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles **6G4b** • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius **6G5** • Draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes **6P2** • 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** • Calculate and interpret the mean as an average **6S3**