

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	AF6 - Measurement	AF7 - Geometry – properties of shape	AF8 - Statistics	
Standard 5	<ul style="list-style-type: none"> Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 5N1 Read, write, order and compare numbers to at least 1 000 000 5N2 Determine the value of each digit in numbers up to 1 000 000 5N3a Read Roman numerals to 1000 (M) and recognise years written in Roman numerals 5N3b Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 5N4 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero 5N5 Solve number problems and practical problems that involve 5N1–5N5 5N6 	<ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers 5C1 Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) 5C2 Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy 5C3 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why 5C4 Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers 5C5a Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers 5C5b Establish whether a number up to 100 is prime and recall prime numbers up to 19 5C5c Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) 5C5d Multiply and divide numbers mentally drawing upon known facts 5C6a Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 5C6b Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 5C7a Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context 5C7b Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes 5C8a Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign 5C8b Solve problems involving multiplication and division including scaling by simple fractions and problems involving simple rates 5C8c 	<ul style="list-style-type: none"> Recognise mixed numbers and improper fractions and convert from one form to the other; write mathematical statements >1 as a mixed number (e.g. $2/5 + 4/5 = 6/5$ or $1\ 1/5$) 5F2a Identify name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths 5F2b Compare and order fractions whose denominators are all multiples of the same number 5F3 Add and subtract fractions with the same denominator and denominators that are multiples of the same number 5F4 Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams 5F5 Read and write decimal numbers as fractions (e.g. $0.71 = 71/100$) 5F6a Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents 5F6b Round decimals with two decimal places to the nearest whole number and to one decimal place 5F7 Read, write, order and compare numbers with up to three decimal places 5F8 Solve problems involving numbers up to three decimal places 5F10 Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred'; write percentages as a fraction with denominator hundred, and as a decimal 5F11 Solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25 5F11 	<ul style="list-style-type: none"> Solve problems involving converting between units of time 5M4 Convert between different units of metric measure [eg: kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre] 5M5 Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints 5M6 Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres 5M7a Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes 5M7b Estimate volume (e.g. using 1cm³ blocks to build cuboids (including cubes)) and capacity (e.g. using water) 5M8 Use all four operations to solve problems involving measure [money] using decimal notation including scaling 5M9a Use all four operations to solve problems involving measure (length, mass and capacity) using decimal notation, including scaling 5M9 	<ul style="list-style-type: none"> Use the properties of rectangles to deduce related facts and find missing lengths and angles 5G2a Distinguish between regular and irregular polygons based on reasoning about equal sides and angles 5G2b Identify 3-D shapes including cubes and other cuboids, from 2-D representations 5G3b Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles 5G4a Identify: <ul style="list-style-type: none"> angles at a point and a whole turn (total 360°) angles at a point on a straight line and $1/2$ a turn (total 180°) other multiples of 90° 5G4b Draw given angles and measure them in degrees (°) 5G4c Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed 5P5 	<ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables 5S1 Solve comparison, sum and difference problems using information presented in a line graph 5S2