

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 4	<ul style="list-style-type: none"> Count from 0 in multiples of 6, 7, 9, 25 and 1000 4N1 Order and compare numbers beyond 1000 4N2a Find 1000 more or less than a given number 4N2a Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) 4N3a 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 4N3b Identify, represent and estimate numbers using different representations 4N4a Round any number to the nearest 10, 100 or 1000 4N4b Count backwards through zero to include negative numbers 4N5 Solve number and practical problems that involve 4N1-4N5 	<ul style="list-style-type: none"> Add and subtract numbers with up to four digits using the formal written method of columnar addition and subtraction where appropriate 4C2 Estimate and use inverse operations to check answers to a calculation 4C3 Solve addition and subtraction two-step problems in contexts, deciding which operation and methods to use and why 4C4 Recall multiplication and division facts for multiplication tables up to 12 x 12 4C6a Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying three numbers 4C6b Recognise and use factor pairs and commutativity in mental calculations 4C6c Multiply two-digit and three-digit numbers by a one-digit number using formal written layout 4C7 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 4C8 	<ul style="list-style-type: none"> Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten 4F1 Recognise and show, using diagrams, families of common equivalent fractions 4F2 Add and subtract fractions with the same denominator AF4 Recognise and write decimal equivalents to $1/4, 1/2, 3/4$ 4F6a Recognise and write decimal equivalents of any number of tenths or hundredths 4F6b Round decimals with one decimal place to the nearest whole number 4F7 Compare numbers with the same number of decimal places up to two decimal places 4F8 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 4F9 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 4F10a Solve simple measure and money problems involving fractions and decimals to two decimal places 4F10b 	<ul style="list-style-type: none"> Compare different measures, including money in pounds and pence 4M1 Estimate different measures, including money in pounds and pence 4M2 Read and convert time between analogue and digital 12-hour and 24-hour clocks 4M4a-b Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days 4M4c Convert between different units of measurement (e.g. km to m; hour to minute) 4M5 Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m 4M7a Find the areas of rectilinear shapes by counting squares 4M7b Calculate different measures, including money in pounds and pence 4M9 	<ul style="list-style-type: none"> Compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes 4G2a Identify lines of symmetry in 2-D shapes presented in different orientations 4G2b Complete a simple symmetric figure with respect to a specific line of symmetry 4G2c Identify acute and obtuse angles and compare and order angles up to two right angles by size 4G4 Describe movements between positions as translations of a given unit to the left/right and up/down 4P2 Describe positions on a 2-D grid as co-ordinates in the first quadrant 4P3a Plot specified points and draw sides to complete given polygon 4P3b 	<ul style="list-style-type: none"> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs 4S1 Solve comparison, sum and difference problems using information presenting in bar charts, pictograms, tables and other graphs 4S3