MATHS CRITERIA - Assessment

Name:	Academic Year						
	Rec.	Y1	Y2	Y3	Y4	Y5	Y6

Year Group Expectations

0 – 59% - Working Towards/60 – 84% - Expected/85%+ Greater Depth

Number&PlaceValue	N1	read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit			
	N2	count forwards and backwards in steps of power 10 for any given number up to 1,000,000			
	N3	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including zero			
	N4	recognise and use thousandths and relate them to tenths, hundreds and decimal equivalents			
	N5	round any number to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000			
	N6	read Roman numerals to 1000 (M) and recognize years written in Roman numerals			
Addition&Subtraction	AS1	add and subtract whole numbers with more than 4 digits, including formal written methods (column addition and subtraction)			
	AS2	add and subtract numbers mentally with increasingly large numbers			
	AS3	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy			
	AS4	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why			
Multiplication&Div	MD1	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers			
	MD2	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers and establish whether a number up to 100 is prime and recall prime numbers up to 19			
	MD3	establish whether a number up to 100 is prime and recall prime numbers up to 19			
	MD4	multiply number up to 4-digit by a 1 digit number using formal written methods			
	MD4	multiply number up to 4-digit by a 2-digit number using formal written methods, including long multiplication for 2-digit numbers			
	MD5	multiply and divide numbers mentally drawing upon known facts up to 12 x 12			

ision	MD6	divide numbers up to 4-digits by 1-digit numbers using the formal written method of short division and interpret remainders appropriately for the context			
	MD7	multiply whole numbers and those involving decimals by 10, 100 and 1000			
	MD7	divide whole numbers and those involving decimals by 10, 100 and 1000			
	MD8	recognise and use square numbers and cube numbers and the notation for squared (²) and cubed (³)			
	MD9	solve problems involving multiplication and division where large numbers are used by decomposing them into factors and multiples, squares and cubes			
	MD10	solve problems involving addition and subtraction, multiplication and division and a combination of these, including the understanding of the equals sign			
	MD11	solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates			
Fractions, Decimals, Percentages, Ratio and Prop	F1	compare and add fractions whose denominators are all multiples of the same number			
	F2	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths			
	F3	recognise mixed numbers and improper fractions and convert from one to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 =1 1/5]			
	F4	add and subtract fractions with the same denominator and denominators that are multiples of the same number			
	F5	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.			
	D1	read and write decimal numbers as fractions, [for example, 0.71 = 71/100]			
	D2	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.			
	D3	round decimals with two decimal places to the nearest whole number and to one decimal place			
	D4	read, write, order and compare numbers with up to three decimal places			
	D5	solve problems involving 3 decimal places			
	P1	recognise the per cent symbol (%) and understand per cent relates to number of parts per hundred and write percentages as a fraction with denominator hundred, and as a decimal fraction with denominator 100 and as a decimal			
	FDP1	solve problems which require knowledge of percentages and decimal equivalents of ½, ¼, 2/5,4/5 and those fractions with a denominator of a multiple of 10 or 25			

ortion					
Measure	M1	convert between different units of metric measures (e.g. km and m, cm m,and mm, g and kg, l and ml)			
	M2	understand and use approximate equivalences between metric units and imperial units such as inches, pounds and pints			
	M3	measure and calculate the perimeter of composite rectilinear shapes in cm and m			
	M4	calculate and compare the area of squares and rectangles including using standard units (cm^2 and m^2) and estimate the area of irregular shapes			
	M5	estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]			
	M6	solve problems involving converting between units of time			
	M7	use all four operations to solve problems involving measures: length, mass, volume.			
	M8	use all four operations to solve problems involving measures: length, mass, volume using decimal notation including scaling			
Geometry(Properties and Position)	G1	identify 3-D shapes, including cubes and other cuboids from 2-D representations			
	G2	know angles are measured in degrees: estimate and compare acute; obtuse and reflex angles			
	G3	draw given angles and measure them in degrees (°)			
	G4	identify: angles at a point and one whole turn (360); angles at a point on a straight line and ½ turn (180); other multiples of 90			
	G5	use properties of rectangles to deduce related facts and find missing lengths and angles.			
	G6	distinguish between regular and irregular polygons based on reasoning about equal sides and angles			
	G10	identify, describe and represent the position of a shape following reflection or translation, using appropriate language and know that the shape has not changed			
St	S1	solve comparison, sum and difference problems using information presented in a line graph			

a t i s t i c s	S2	complete, read and interpret information in tables, including timetables			