Name:	Year group joined/date:	
SEND/EI	PP: Yes/No	

MATHS		
	Year 5 Expected	**Year 5 Greater Depth**
Number	Read, write compare and order numbers to at least 1 000 000 Read Roman numerals to 1000 and recognise years in Roman Numerals	Read, write compare and order numbers to at least 1 000 000 in context – house prices, dates, measures
	Interpret negative numbers and count forwards and backwards in steps of any number through zero Count up and down from any given number in 100ths	
	Recognise the value of any digit to at least 1 000 000	Use place value to reason about numbers to 1 000 000 – Which two numbers have a sum of x, with a difference of y? Using the digits a,b,c and d, make a number between x and y.
	Know by heart one tenth less or more than any given number	
	Round any number to nearest 10, 100, 1000, 10 000 and 100 000	Use rounding to reason and solve problems – Mr Smith rounded the measurements of his garden and bought enough turf to cover a plot 5x6m. How much extra or short could he be?
Calculations	Apply the column method using carrying and exchanging with numbers over 4 digits. (18) Solve addition and subtraction multi step problems deciding which operation to use and why. (19)	Find missing numbers in addition and subtraction calculations using the column method with numbers over 4 digits.
	Estimate answers to any addition and subtraction problems. (18.1)	Independently use estimating when adding and subtracting.
	Recall quickly multiplication facts up to 12 x 12, and use them to multiply pairs of multiples of 10 and 100, for example 30x70, 40x200	Reason about multiplication and division facts for multiples of 10 and 100 - Missing numbers from a multiplication grid
	Recall quickly division facts of all tables up to 12x12, and use them to divide pairs of multiples of 10 and 100, for example 240 ÷ 40 = 60	
	Double and halve any number with up to 1 decimal place	Double and halve any number with up to 1 decimal place at speed
	Multiply a 4 digit number by a 1 or 2 digit number using long multiplication. Divide a 4 digit number by a 1 digit number using short division methods using remainders	Find missing numbers in multiplication and division calculations using long and short methods
	Solve multi step multiplication and division word problems	
	Use multiples and factors including factor pairs and common factors. Solve multiplication and division problems using factors. Recall prime numbers up to 19 using vocabulary.	
	Recognise squared (^{2}), cubed (^{3}) and square root ($\sqrt{}$) signs	Use squared (^{2}), cubed (^{3}) and square root ($\sqrt{}$) signs in context: area and volume of shapes – running track, portable classroom, play house

Fractions	Recognise and use mixed numbers and improper fractions and convert from one to the other. Be able to multiply these by a whole number	
	Recognise and use 1000ths relating them to 10ths and 100ths	Reason about counting up and down in 1000ths - Missing numbers in a small section of a number square (not starting a new line for every multiple of 100ths)
	Solve problems involving decimal and percentage equivalents of ½ ¼ 1/5 2/5 4/5	Solve problems involving both decimal and percentage equivalents in the same problem
	Add and subtract fractions with the same denominator or a denominator of a multiple of the same number	Add and subtract fractions with the same denominator or a denominator of a multiple of the same number in context
	Compare and order fractions when denominators are multiples of the same number	
	Identify, name and write equivalent fractions	
	Round decimals with 2dp to nearest whole number and to 1dp. Read, write, order and compare numbers up to 3dp. Read decimals as fractions.	Identify the largest and smallest numbers that could be rounded to a given number
	Divide any number by 10 or 100 applying decimal notation	Create scaled models or diagrams that are 10th or 100th of the original
Measurement	Convert between different units of metric measurements. Understand and use the difference between metric and imperial units	
	Solve problems converting between units of time	
	Measure and calculate the area of any rectilinear shape using standard measurement and estimate the area of irregular shapes	To create rectilinear shapes for given perimeters and areas
	Solve problems using all four operations involving measures including scaling	
Geometry	Use properties of rectangles to deduce facts e.g. missing lengths and angles	
	Identify 360° as a full turn and 180° as a straight line. Know other multiples of 90° Know angles are measured in degrees and draw given angles and measure them in degrees	Find missing angles in a full turn, straight line or right angle.
	Identify 3D shapes from 2D representation	Build 3D constructions from 2D representations
Statistics	Complete, read and interpret information on tables including timetables	
	Solve comparisons, sum and difference problems using information presented on a line graph	To independently make observations and comparisons using information presented in a line graph
Position and direction	Describe positions on the full coordinate grid (all four quadrants)	
	Describe movements between positions across all 4 quadrants	
	Draw and translate simple shapes on the coordinate plane and reflect them in the axes	Predict accurately coordinates of shapes when translated or reflected