Year 5 Progression in Maths

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9	Unit 10	Unit 11	Unit 12	Unit 13	Unit 14	Unit 15
I will know how to read & write numbers up to 1000000 in numerals/ words I will know how to partition a number into hundred thousands, ten thousands, thousands, hundreds, tens and ones and state the value of a given digit within a number I will know how to compare two numbers to say which is greater, using > or < to notate	I will know how to count in 10s and 100s I will know how to count in 1000s (and 10 000s, 100 000s) I will know how to define and find factors of a number I will know how to identify common factors of two numbers I will know how to define and find multiples of a number I will know how to identify common	I will know how to add a five-digit number to a five-digit number I will know how to subtract ones/tens/hundreds/thousands/ten thousands from a five-digit number mentally I will know how to solve simple word problems involving mental addition or subtraction I will know how to add a five-digit number and a five-digit number I will know how to subtract a five-digit number from a five-digit number I will know how to add and subtract simple decimals using column method I will know how to interpret a word problem correctly as an addition or subtraction calculation and solve I will know how to solve missing number problems involving addition/subtraction		I will know how to recognise the properties of right angles and relate these to proportions of a whole turn I will know how to recognise the properties of acute angles I will know how to recognise the properties of obtuse angles I will know how to recognise the properties of obtuse angles I will know	I will know how to find the perimeter of a rectangle I will know how find the perimeter of a rectilinear composite shape I will know how to produce a shape with a given perimeter I will know how to find the area of a rectangle I will know how to produce rectangle with a given area I will know how to estimate area of an	I will know how convert improper fractions to mixed numbers (and whole numbers) I will know how to convert mixed numbers to improper fractions I will know how to recognise equivalent fractions I will know how to find equivalent fractions I will know how compare two fractions with denominators that are multiples of	I will know how add & subtract proper fractions with the same denominator I will know how to add mixed numbers & fractions with the same denominator I will know how to subtract mixed numbers & fractions with same denominator I will know how to calculate a fraction of an amount I will know how to, given the value of a fraction of the amount,	I will know how to multiply a whole number by a 1 or 2 digit number I will know how to Recap: divide a whole number by a 1-digit number I will know how solve word problems involving multiplication and/or division I will know how to solve scaling and balance problems involving a multiplication and/or division	I will know how to interpret timetables. I will know how to interpret line graphs	I will know how to measure an angle less than 180° I will know how to measure an angle greater than 180° I will know how to use a protractor/angle measurer to draw angles less than 180° I will know how to use a protractor/angle measurer to draw angles greater than 180° I will know how to identify 3D shapes from photographs and sketches	I will know how to convert simple units of time I will know how to convert more complex units of time I will know how to calculate the duration of an activity I will know how solve more complex problems involving time and conversions	I will know how solve word problems involving multiplication and/or division I will know how solve balance problems involving multiplication and/or division I will know how to solve scaling and problems involving rates I will know how to solve problems involving any of the four operations in a range of contexts including basic rates of change.	I will know how to reflect a shape in a mirror line parallel to the one of the axes I will know how to reflect a shape in a mirror line that touches or crosses the shape I will know how to find the mirror line of a reflection I will know how to carry out and describe a translation using horizontal and vertical movements I will know how to	I will know how to convert units of length I will know how to convert units of mass I will know how to convert units of capacity I will know how to solve problems involving measures I will know how to recognise and use imperial units I will know how convert between metric and imperial units

I will know how to order numbers from smallest to largest I will know how to read and write numbers up to 3 decimal places – partition a number into tenths, hundredths and thousandths I will know how to compare and order decimals of the same length to say which is greater, using > or < to notate I will know how to compare and order decimals of different/mixed lengths I will know how to read, write and	multiples of two numbers I will know how to identify prime and composite numbers I will know how to find the square of a number I will know how to find the cube of a number I will know how to use times tables to find related multiplication facts Use times tables to find related division facts (answer a whole number)	I will know how to multiply whole numbers by 10, 100 and 1000 I will know how to multiply decimals by 10, 100 and 1000 I will know how to divide whole numbers 10, 100 and 1000 (whole number answer) I will know how to divide whole number by 10, 100 and 1000 (decimal answer) I will know how to multiply a three-digit number by a single digit using a formal method I will know how to multiply a four-digit number by a single digit using a formal method I will know how to multiply a three-digit number by a two-digit number using a formal method (recap) I will know how to multiply up to a four-digit number by a two-digit number using a formal method I will know how to divide a 3-digit number by a 1-digit number using a written method I will know how to divide a 4-digit number by a 1-digit	how to relate right angles to degrees I will know how to compare, order and begin to estimate acute angles I will know how to compare, order and begin to estimate obtuse angles I will know how to compare, order and begin to estimate reflex angles I will know how to compare and order mixed angles I will know how to recognise regular and irregular polygons I will know	irregular shape I will know how to find volume of a cuboid I will know how to estimate volume of a container in cm3 or m3 I will know how to estimate capacity of a container in l or ml	the same number I will know how to order three or more fractions whose denominators are multiples of the same number I will know how to manipulate tenths and hundredths I will know how to convert fractions with denominator 10 or 100 to decimals I will know how to convert decimals up to 2dp to fractions I will know how to recognise percentages	calculate the original amount I will know how to add fractions with denominators that are multiples of the same number I will know how to subtract fractions with denominators that are multiples of the same number I will know how to multiply a unit fraction by a whole number I will know how to multiply a proper fraction by a whole number I will know how to multiply a mixed number by a	I will know how to solve problems involving square and cube numbers I will know how solve problems involving factors, multiples and primes I will know how to round a number to a given degree of accuracy I will know how to solve problems involving 4 operations and some element of rounding	I will know how to identify 3D shapes from their nets I will know how to identify 3D shapes from isometric diagrams, stating the dimensions I will know how to produce own 2D representations of 3D shapes			understand that translation and reflections produce an image that is congruent to the original shape	

interpret negative numbers in context I will know how to round a decimal to the nearest whole number o one decimal place I will know how to round a decimal of 2dp to 1dp I will know how to convert between Roman Numerals and Arabic Numerals up to 1000 I will know how to manipulate years and dates written in Roman numerals		number using a written method (no remainder) I will know how to divide a 3-digit or 4-digit number by a 1-digit number using a written method (with remainders) I will know how to recognise and solve a simple division problem, interpreting any remainders in the context as appropriate. I will know how to estimate the answer to an addition, subtraction, multiplication or division calculation I will know how to find the inverse calculation to an addition or subtraction and use it to check an answer I will know how to solve simple word problem estimation questions	how to classify triangles I will know how to classify quadrilaterals I will know how to describe and use the properties of rectangles		I will know how to convert percentages to fractions and decimals I will know how to recall equivalent fractions, decimals and percentages I will know how to solve problems involving equivalence of FDP	whole number					