



Week	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	Number place value <ul style="list-style-type: none"> Numbers to 10 million Compare and order any numbers Recap – round numbers to 10, 100, 1000 Round any integer Negative numbers 		Number – addition subtraction Recap – add and subtract 4 digit numbers Recap – inverse operations	Number- multiplication and division <ul style="list-style-type: none"> Recap multiply 2 and 3 digit by a 2 digit number Multiply a 4 digit by a 2 digit Recap – short division divide a 4 digit by a 1 digit Division using factors Division with remainders – rounding up or down Long division Common factors, common multiples and primes to 100 Squares and cubes Order of operations Mental calculation and estimation, reason from known facts 				Number – fractions <ul style="list-style-type: none"> Simplify fractions Fractions on a number line Compare and order fractions by finding a common denominator Compare and order (numerator) Add and subtract fractions Add and subtract mixed numbers 		Number – fractions <ul style="list-style-type: none"> Multiply fractions by integers Multiply fractions by fractions Divide fractions by integers Divide fractions by fractions Find fraction of an amount Find the whole if given a fraction of the amount 		Measures Convert and calculate with metric units of measure Construct conversion graph for miles and kms Imperial measures
Spring	Number – ratio <ul style="list-style-type: none"> Use language of ratio (for every...) and symbol Calculate ratio Use scale factors Calculate scale factors Solve ratio and proportion problems 		Number – algebra <ul style="list-style-type: none"> Find the rule in one and 2 steps functions Form expressions Use substitution Understand formulae Form equations Solve one and two step equations Find pairs of values 		Number – decimals <ul style="list-style-type: none"> Recognise place value up to 3 dp Multiply and divide decimals by 10, 100, 1000 Multiply and divide decimals by integers Decimals as fraction equivalents Change fractions to decimals 		Number – Frac, Dec & Percentages <ul style="list-style-type: none"> Change fractions to percentages Find equivalent FDP Order FDP Find percentage of an amount Solve missing value percentage problems 		Measurement – perimeter, area, volume <ul style="list-style-type: none"> Identify different shapes with same area Explore area and perimeter Calculate area of triangles using perpendicular height Find area of parallelogram Calculate volume of cuboid 		Statistics <ul style="list-style-type: none"> Read and interpret line graphs Draw line graphs Use line graphs to solve problems Language of a circle Read and interpret pie charts Pie charts with percentages Find the mean 	
Summer	Geometry – properties of shape <ul style="list-style-type: none"> Measure accurately with a protractor Recap – angle on a straight line and angles around a point Calculate missing angles Vertically opposite angles Angles in a triangle and missing angles Angles in regular polygons Draw shapes accurately Draw nets of 3D shapes 			Geometry position and direction Translations and reflections in all four quadrants		Transition units set by High Schools, themed projects including Apprentice Challenge, consolidation and problem solving						

Number and place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Geometry	Other (some elements are part of NC but not included in DfE guidance or NCETM mastery PD Materials)
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