

Spring 2023				
BLOCK	WEEKS	KEY VOCABULARY	SMALL STEPS	NC OBJECTIVES
Measurement: Converting Units	1	Metric Imperial Convert Centimetre, metre, kilometre Millilitre, litre Gram, kilogram Length Mass Volume Miles	Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measures	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 dp. Convert between miles and kilometres
Number: Ratio	2-3	Ratio Scale factor Fraction Proportion Relative size Divide Multiply	Using ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio Using scale factors Calculating scale factors Ratio and proportion problems	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
Number: Algebra	4-5	Substitution BIDMAS Formulae Equations Enumerate possibilities Algebra Linear number sequence Inverse Variables	Find a rule – one step Find a rule – two steps Forming expressions Substitution Formulae Forming equations Solve simple one-step equations Solve two-step equations Find pairs of values Enumerate possibilities	Use simple formulae. Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two variables
Number: Decimals	6-7	Decimal Place-value Tenths Hundredths Thousandths Compare Round Multiply Divide Convert Equivalent	Place value within 1 Place value integers and decimals Round decimals Add and subtract decimals Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiply decimals by integers Divide decimals by integers Multiply and divide decimals in context	Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. Multiply 1-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2

		Fraction Numerator Denominator		decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy .
Number: Fractions, decimals and percentages	8-9	Percentage Fraction Decimal Equivalent Compare Order Tenths Hundredths Denominator Numerator Divide Multiply	Decimal and fraction equivalents Fractions as division Understand percentages Fractions to percentages Equivalent FDP Order FDP Percentage of an amount (1) Percentage of an amount (2) Percentages – missing values	Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison. Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.
Measurement: Area, Perimeter and Volume	10-11	Perimeter Area Volume Units Length Width Depth Triangle Parallelogram Cuboid Capacity	Shapes – same area Area and perimeter Area of a triangle (1) Area of a triangle (2) Area of a triangle (3) Area of parallelogram Volume –counting cubes Volume of a cuboid	Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm ³ , m ³ and extending to other units (mm ³ , km ³)
Statistics	12-13	Line graph Ruler Read Interpret Graph Pie chart Slices Percentages Mean Average	Line graphs Dual bar charts Read and interpret pie charts Pie charts with percentages Draw pie charts The mean	Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average