

Spring 2024				
BLOCK	WEEKS	KEY VOCABULARY	SMALL STEPS	NC OBJECTIVES
Number – Multiplication and division	1 - 2	Inverse, associative law, order, arrays, factor, whole number, pairs, informal/formal written methods, mental methods, exchange, column, divisible, divisor, remainder.	Factor pairs (fluency starter) Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Related facts Informal written methods (fluency starter) Multiply 2-digits by 1-digit Multiply 3-digits by 1-digit Divide 2-digits by 1-digit Divide 3-digits by 1-digit Correspondence problems Efficient multiplication	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as which n objects are connected to m objects. Recognise and use factor pairs and commutatively in mental calculations. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.
Measurement – Length and Perimeter	3 - 4	Convert, kilometres, metres, perimeter, rectilinear shapes, grid, shortest, longest, multiplication, division, width, length, calculate, dimensions, measures	Measure in km and m Equivalent lengths (km and m) Perimeter on a grid (fluency starter) Perimeter of a rectangle Perimeter of rectilinear shapes Find missing lengths in rectilinear shapes Calculate perimeter of rectilinear shapes Perimeter of regular polygons (only if time allows – prioritise rectilinear shapes) Perimeter of polygons (only if time allows – prioritise rectilinear shapes)	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Convert different units of measure (for example, kilometre to metre).
Fractions	5 - 8	Fractions, shapes, quantities, number line, numerator, denominator, non-unit, unit fractions, equivalent fractions, fraction wall, equal, wholes, parts, improper fractions, mixed numbers, add, subtract, ascending, descending, difference	Understand the whole Equivalent fractions on a number line Equivalent fraction families Fractions greater than 1 Count in fractions Add 2 or more fractions Subtract 2 fractions Subtract from whole amounts Calculate fractions of a quantity Problem solving – calculate quantities	Recognise and show, using diagrams, families of common equivalent fractions. Count up or down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. Add and subtract fractions with the same denominator.
Decimals	9 - 11	Decimals, fractions, tenths, hundredths, equivalent, partition, place value grid, decimal point, number line, centimetres, millimetres, equal parts, smaller.	Tenths as fractions Tenths as decimals Tenths on a place value chart Tenths on a number line Divide 1-digit by 10 Divide 2-digits by 10 Hundredths as fractions	Recognise and write decimal equivalents of any number of tenths or hundredths. Recognise and write decimal equivalents to one quarter, one half and three quarters.

			Hundredths as decimals Hundredths on a place value grid Divide 1 or 2-digits by 100	Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. <u>Solve simple measure and money problems involving fractions and decimals to two decimal places.</u> Convert between different units of measure (e.g. km to m).
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