

Year 6 – White Rose order of National Curriculum Progression

		National Curriculum Progression Statements	Ready to Progress Statements
Term 1	Number: Place Value	I can read, write (order and compare) numbers to 10 000 000 and determine the value of each digits	6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Autumn 1
		I can round any whole numbers to a required degree of accuracy	
		I can use negative numbers in context and calculate intervals across zero	
		I can solve number problems and practical problems that involve all of the above	
	Number: Addition, Subtraction, Multiplication and Division	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning Autumn 1
		I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	
		I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate to the context	6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. Autumn 1
		I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of short division where appropriate, interpreting remainders according to the context	
		I can perform mental calculations, including mixed operations and large numbers	
		I can solve problems involving addition, subtraction, multiplication and division	
		I can perform mental calculations, including with mixed operations and large numbers	6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. Autumn 1 and 5 Spring 3
		I can identify common factors, common multiples and prime numbers	
		I can use knowledge of the order of operations to carry out calculations involving the four operations	
		Number: Fractions A	I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
	I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination		
	I can compare and order fractions, including fractions > 1		
	I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		
	I can multiply simple pairs of proper fractions, writing the answer in its simplest form		
	Number: Fractions B	I can divide proper fractions by whole numbers	6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. Autumn 2
		I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	
I can multiply simple pairs of proper fractions, writing the answer in its simplest form			
Measurement: Converting Units	I can divide proper fractions by whole numbers	6AS/MD-3 Solve problems involving ratio relationships. Spring 1	
	I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate		
	I can 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 up to 3 decimal places	6AS/MD-4 Solve problems with 2 unknowns. Spring 2	
	I can convert between miles and kilometres		
Term 2	Number: Ratio	I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions.

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			Autumn 3
		I can solve problems involving the calculation/use of percentages for comparison	6F–2 Express fractions in a common denomination and use this to compare fractions that are similar in value. Autumn 3
		I can solve problems involving similar shapes where the scale factor is known or can be found	
	I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples		
	Number: Algebra	I can use simple formulae	6F–3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy. Autumn 3
		I can generate and describe linear number sequences	
		I can express missing number problems algebraically	
		I can find pairs of numbers that satisfy an equation with two unknowns	
		I can enumerate possibilities of combinations of two variables	
	Number: Decimals	I can identify the value of each digit in three digit numbers given to three decimal places	6G–1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems. Spring 5 Summer 1
		I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	
		I can associate a fraction with division and calculate a decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]	
	Number: Fractions, decimals and percentages	I can associate a fraction with division and calculate a decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]	
	Measurement: Perimeter, Area and Volume	I can recognise that shapes with the same areas can have different perimeters and vice versa	
		I can recognise when it is possible to use formulae for area and volume of shapes	
I can calculate the area of parallelograms and triangles			
I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres, and extending to other units			
Statistics	I can interpret and construct pie charts and line graphs and use these to solve problems		
	I can calculate and interpret the mean as an average		
Term 3	Geometry: Shape	I can draw 2-D shapes using given dimensions and angles	
		I can compare and classify geometric shapes based on their properties and sizes	
		I can find unknown angles and lengths in triangles, quadrilaterals, and regular polygons	
		I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	
		I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	
		I can recognise and build simple 3-D shapes, including making nets	
	Geometry: Position and Direction	I can describe positions on the full coordinate grid (all four quadrants)	
I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes			