

Year 5 Small Steps Maths Planning: Steps taken from White Rose planning.

For detail about each step, please refer to the relevant White Rose Scheme of Learning. Please remember that each step is not necessarily one lesson. In some cases, depending on the cohort, one step may take several lessons, in others, more than one step may be incorporated into a single lesson.

Autumn Term		
	Step	White Rose SOW Position
Number: Place Value		
	Numbers to 10,000	Autumn
	Numbers to 100,000	Autumn
	Numbers to 1,000,000	Autumn
	Read and write numbers to 1,000,000	Autumn
	Powers of 10	Autumn
	10/100/1,000/10,000/100,000 more or less	Autumn
	Partition numbers to 1,000,000	Autumn
	Number line to 1,000,000	Autumn
	Compare and order numbers to 100,000	Autumn
	Compare and order numbers to 1,000,000	Autumn
Number: Addition and Subtraction		
	Add whole numbers with more than four digits	Autumn
	Subtract numbers with more than four digits	Autumn
	Multi-step addition and subtraction problems	Autumn
	Compare calculations	Autumn
	Missing numbers	Autumn
Number: Multiplication and Division		
	Multiples	Autumn
	Common Multiples	Autumn
	Factors	Autumn
	Common Factors	Autumn

	Prime Numbers	Autumn
	Square Numbers	Autumn
	Cube Numbers	Autumn
Number: Fractions		
	Find fractions equivalent to a unit fraction	Autumn
	Find fractions equivalent to a non-unit fraction	Autumn
	Recognise equivalent fraction	Autumn
	Convert improper fractions to mixed numbers	Autumn
	Convert mixed numbers to improper fractions	Autumn
	Compare fractions less than 1	Autumn
	Order fractions less than 1	Autumn
	Compare and order fractions greater than 1	Autumn
	Add and subtract fractions with the same denominator	Autumn
	Add fractions within 1 (one denominator multiple of other)	Autumn
	Add fractions with total greater than 1 (one denominator multiple of other)	Autumn
	Add three fractions crossing 1 (one denominator multiple of other)	Autumn
Measurement: Perimeter and Area		
	Perimeter of rectangles	Spring
	Perimeter of rectilinear shapes	Spring
	Perimeter of polygons	Spring
	Area of rectangles	Spring
	Area of compound shapes	Spring
	Estimate area	Spring
Geometry: Shape		
	Understand and use degrees	Summer
	Classify angles	Summer
	Estimate angles	Summer

	Measure angles up to 180°	Summer
Geometry: Position and Direction		
	Read and plot co-ordinates	Summer
	Problem solving with co-ordinates	Summer
	Lines of symmetry	Summer
	Reflection in horizontal and vertical lines	Summer
Spring Term		
	Step	White Rose SOW Position
Number: Negative Numbers		
	Understand negative numbers	
	Count through zero in 1s	
	Count through zero in multiples	
	Compare and order negative numbers	
	Find the difference	
Number: Addition and Subtraction		
	Round to check answers	Autumn
	Inverse operation (addition and subtraction)	Autumn
	Mental Strategies	Autumn
Number: Multiplication and Division		
	Multiply by 10, 100 and 1,000	Autumn
	Divide by 10, 100 and 1,000	Autumn
	Multiples of 10, 100 and 1,000	Autumn
	Multiply up to a 4-digit number by a 1-digit number	Spring
Number: fractions		
	Add to a mixed number	Autumn
	Add two mixed numbers	Autumn
	Subtract fractions	Autumn
	Subtract from a mixed number	Autumn

	Subtract from a mixed number - breaking the whole	Autumn
	Subtract two mixed numbers	Autumn
	Multiply a unit fraction by an integer	Spring
	Multiply a non-unit fraction by an integer	Spring
	Multiply a mixed number by an integer	Spring
	Calculate a fraction of a quantity	Spring
Number: Multiplication and division		
	Multiply a 2-digit number by a 2-digit number*	Spring
	Multiply a 3-digit number by a 2-digit number	Spring
	Multiply a 4-digit number by a 2-digit number	Spring
	Solve problems with multiplication	Spring
	Divide a 4-digit number by a 1-digit number	Spring
	Divide with remainders	Spring
	Efficient division	Spring
	Solve problems with multiplication and division	Spring
Measurement: Converting Units		
	Kilograms and kilometres	Summer
	Millimetres and millilitres	Summer
	Convert units of length	Summer
	Convert between metric and imperial units	Summer
Statistics		
	Draw line graphs	Spring
	Read and interpret line graphs	Spring
	Read and interpret tables	Spring

* Step 2, Multiply by 2-digit number by a 2-digit number (area model) has been omitted as it does not match Stock Church of England's written calculation policy. However, if individual children are struggling, and it is felt they would benefit from this step, then it may be taught to these children.

Summer Term		
	Step	White Rose SOW Position
Number: Place Value		
	Round to the nearest 10, 100 or 1,000	Autumn
	Round within 100,000	Autumn
	Round within 1,000,000	Autumn
	Roman Numerals to 1,000	Autumn
Number: Fractions		
	Fraction of an amount	Spring
	Find the whole	Spring
	Using fractions as operators	Spring
Number: Decimals and Percentages		
	Decimals up to 2 decimal places	Spring
	Equivalent fractions and decimals (tenths)	Spring
	Equivalent fractions and decimals (hundredths)	Spring
	Equivalent fractions and decimals	Spring
	Thousandths as fractions	Spring
	Thousandths as decimals	Spring
	Order and compare decimals	Spring
	Round to the nearest whole number	Spring
	Round to 1-decimal place	Spring
	Understand percentages	Spring
	Percentages as fractions	Spring
	Percentages as decimals	Spring
	Equivalent fractions, decimals and percentages	Spring
Geometry: Converting Units		
	Convert units of time	Summer
	Calculate with timetables	Summer

Number: Decimals		
	Use known facts to add and subtract decimals within 1	Summer
	Complements to 1	Summer
	Add and subtract decimals across 1	Summer
	Add decimals with the same number of decimal places	Summer
	Subtract decimals with the same number of decimal places	Summer
	Add decimals with different numbers of decimal places	Summer
	Subtract decimals with different numbers of decimal places	Summer
	Efficient strategies for adding and subtracting decimals	Summer
	Decimal sequences	Summer
	Multiply by 10, 100 and 1,000	Summer
	Divide by 10, 100 and 1,000	Summer
	Multiply and divide decimals - missing values	Summer
Geometry: Volume		
	Cubic centimetres	Summer
	Compare volume	Summer
	Estimate Volume	Summer
	Estimate Capacity	Summer
Geometry: Shape		
	Draw lines and angles accurately	Summer
	Calculate angles around a point	Summer
	Calculate angles on a straight line	Summer
	Lengths and angles in shapes	Summer
	Regular and irregular polygons	Summer
	3-D shapes	Summer
Geometry: Position and Direction		
	Translation	Summer
	Translation with coordinates	Summer

	Two way tables	Spring
	Read and interpret timetables	Spring