Year 5

Autumn term					
Step	**Place value (4 weeks)**	**Addition and subtraction (1 week)**	**Multiplication and division (3 weeks)**	**Fractions (4 weeks)**	**Multiplication and division (2 weeks)**
1	Roman numerals to 1,000	Mental strategies	Multiples	Recognise equivalent fractions	Multiply a 2-digit number by a 2-digit number
2	Numbers to 100,000	Add integers	Common multiples	Equivalent fractions and simplifying	Multiply up to a 4-digit number by a 2-digit number
3	Numbers to 1,000,000	Subtract integers	Factors	Equivalent fractions on a number line	Solve problems with multiplication
4	Read and write numbers to 1,000,000	Inverse operations and missing numbers	Common factors	Convert improper fractions to mixed numbers	Short division Step 5
5	Numbers to 10,000,000	Reason from known facts	Rules of divisibility	Convert mixed numbers to improper fractions	Divide a 4-digit number by a 1-digit number
6	Read and write numbers to 10,000,000		Square and cube numbers	Compare fractions (denominator)	Division using factors
7	Powers of 10		Prime numbers	Compare fractions (numerator)	Introduction to long division
8	Partition numbers to 10,000,000		Multiply by 10, 100 and 1,000	Order fractions	Long division with remainders
9				Add and subtract fractions with the same denominator	Solve problems with division
10				Add fractions where one denominator is a multiple of the other	Efficient division
11				Add any two fractions	Solve multi-step problems
12				Add mixed numbers	Order of operations
13				Subtract fractions where one denominator is a multiple of the other	Mental calculations and estimation
14				Subtract any two fractions	Reason from known facts
15				Subtract from a mixed number	

16				Subtract from a mixed number – crossing the whole	

Spring term						
Step	**Multiplication and division (1 weeks)**	**Fractions (2 weeks)**	**Decimals (2 weeks)**	**Area, perimeter and volume (2 weeks)**	**Decimals (2 weeks)**	**Fractions, decimals and percentages (2 weeks)**
1	Multiply a 2-digit number by a 2-digit number	Multiply a unit fraction by an integer	Decimals up to 2 decimal places	Perimeter of rectangles and rectilinear shapes	Use known facts to add and subtract decimals within 1	Equivalent fractions and decimals – tenths Step 2 Step 3 Step 4 Step 5 Step 6 Step 7 Step 8
2	Multiply up to a 4-digit number by a 2-digit number	Multiply a non-unit fraction by an integer	Decimals up to 3 decimal places	Area of rectangles	Complements to 1	Equivalent fractions and decimals – hundredths
3	Solve problems with multiplication	Multiply a mixed number by an integer	Place value – integers and decimals	Area of compound shapes	3 Add and subtract decimals across 1	Equivalent fractions and decimals – thousandths
4	Short division	Multiply fractions by fractions	Order and compare decimals (same number of decimal places)	Estimate area	Add decimals with the same number of decimal places	Fractions as division
5	Divide a 4-digit number by a 1-digit number	5 Divide a fraction by an integer	Order and compare any decimals with up to 3 decimal places	Area of triangles	Subtract decimals with the same number of decimal places	Understand percentages
6	Division using factors	Divide any fraction by an integer	Round to the nearest whole number	Area of parallelograms	Add decimals with different numbers of decimal places	Percentages as fractions
7	Introduction to long division	Fraction of an amount	Round to 1 decimal place	Volume – cubic centimetres	Subtract decimals with different numbers of decimal places	Percentages as decimals
8	Long division with remainders	Fraction of an amount – find the whole	Round to 2 decimal places	Volume of a cuboid	Efficient strategies	Equivalent fractions, decimals and percentages
9				Compare volume	Decimal sequences	Order fractions, decimals and percentages
10				Estimate volume and capacity	Multiply by 10, 100 and 1,000	Percentage of an amount

11					Divide by 10, 100 and 1,000	
12					Multiply decimals by integers	
13					Divide decimals by integers	
14					Multiply and divide decimals in context	

Summer term						
Step	**Ratio (2 weeks)**	**Algebra (2 weeks)**	**Shape (3 weeks)**	**Position and direction (2 weeks)**	**Statistics (1 week)**	**Converting units (2 weeks)**
1	Add or multiply?	Function machines	Understand and use degrees	The first quadrant	Draw line graphs	Kilograms and kilometres
2	Use ratio language	Form expressions	Classify angles	Four quadrants	Read and interpret line graphs	Millimetres and millilitres
3	Ratio and fractions	Substitution	Measure angles	Solve problems with coordinates	Bar charts	Convert units of length
4	Use scale factors	Formulae	Calculate angles around a point	Translations	Read and interpret tables	Miles and kilometres
5	Similar shapes	Form equations	Calculate angles on a straight line	Lines of symmetry	Read and interpret timetables	Imperial measures
6	Ratio problems	Solve equations	Vertically opposite angles	Reflections	Read and interpret pie charts	Convert units of time
7	Proportion problems	Find pairs of values	Angles in a triangle		Pie charts with percentages	Calculate with timetables
8		Solve problems with two unknowns	Angles in a triangle – special cases		Draw pie charts	
9			Angles in quadrilaterals			
10			Regular polygons Step			
11			Irregular polygons			
12			Circles			

13			Draw shapes			
14			3-D shapes			