



Mathematics Curriculum Progression – Year 6

	Autumn 1	Autumn 2	Spring 1
	Secure fluency in X-tables Convert mixed numbers to improper and vice versa	Secure fluency in X-tables Convert mixed numbers to improper and vice versa	Secure fluency in X-tables Convert mixed numbers to improper and vice versa
Fluency and Arithmetic	Addition/Subtraction – Column Method BIDMAS Multiplication/Division – Short and Long Multiplication/Division Multiply/Divide Fractions Multiply/Divide Fractions Multiplying decimals Multiplying/Dividing by 10,100 and 1000	Percentages of Amounts Add/Take Fractions Different Denominators and Mixed Numbers Continuation of previously learned skills	Continuation of previously learned skills
	Spring 2	Summer 1	Summer 2
	Continuation of previously learned skills	Continuation of previously learned skills	Continuation of previously learned skills Full range of RTPC – including transition to Year 7

Ready to Progress Criteria National Curriculum Objective

Autumn Term 1	Autumn Term 2	Spring 1
Place Value (2 weeks)	Fractions (4 weeks)	Decimals and Percentages
		<mark>(2 week)</mark>
Recognise the place value of each digit	Recognise when fractions can be simplified,	
in numbers up to 10 million, including	and use common factors to simplify	To associate a fraction with division and
decimal fractions, and compose and	fractions	calculate decimal fraction equivalents for
decompose numbers up to 10 million		a simple fraction.
using standard and nonstandard	Express fractions in a common	
partitioning.	denomination and use this to compare	To recall and use equivalences between
Divide manage of 10 from 1 burg due date	fractions that are similar in value.	simple fractions, decimals and
Divide powers of 10, from 1 nunareath	Compare fractions with different	percentages, including in different
to 10 million, into 2, 4, 5 and 10 equal	denominators, including fractions greater	contexts.
with labelled intervals divided into 2 A	than 1 using reasoning and choose	
5 and 10 equal parts.	between reasoning and common	To multiply one-digit numbers with up to
s and 10 equal parts	denomination as a comparison strateav	2 decimal places by whole numbers
Reason about the location of any		
number up to 10 million, including	To add and subtract fractions with different	To use written division methods in cases
decimal fractions, in the linear number	denominators and mixed numbers, using	where the answer has up to 2 decimal
system, and round numbers, as	the concept of equivalent fractions	places
appropriate, including in contexts.		
	To multiply simple pairs of proper fractions,	To solve problems involving the
Understand the relationship between	writing the answer in its simplest form	calculation of percentages and the use of
powers of 10 from 1 hundredth to 10		percentages for comparison
million, and use this to make a given	To divide proper fractions by whole	
number 10, 100, 1,000, 1 tenth, 1	numbers	Converting Measures (1
hundredth or 1 thousandth times the		week)
$\frac{1}{1}$ size (multiply and alvide by 10, 100 and 1 000)	Decimals and Percentages (2	
1,000/	weeks)	To use, read, write and convert between
To round any whole number to a		standard units, converting
required degree of accuracy	To associate a fraction with division and	measurements of length, mass, volume
To use negative numbers in context,	calculate decimal fraction equivalents for	and time from a smaller unit of measure
and calculate intervals across 0	a simple fraction.	to a larger unit, and vice versa, using
		decimal notation to up to 3 decimal
Addition Subtraction	To recall and use equivalences between	places
Multiplication and Division	simple fractions, decimals and percentages,	
	including in different contexts.	To convert between miles and kilometres
(Sweeks)		(5 miles = 8Km or 1 mile = 1.6 km)
	To multiply one-digit numbers with up to 2	
	decimal places by whole numbers	





To recognise when it is possible to use formulae for area and volume of shapes. To calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units.	Solve problems with 2 unknowns To enumerate possibilities of combinations of 2 variables. Revision of units (4 weeks)	
To calculate the area of parallelograms and triangles	To generate and describe linear number sequences	
To recognise that shapes with the same areas can have different perimeters and vice versa	To use simple formulae To express missing number problems algebraically	KS3 and further application of skills.
Perimeter, Area and Volume (3 weeks)	Algebra (2 weeks)	Consolidation of key learning, preparation for
Spring 2	Summer 1	Summer 2
To use estimation to check answers to calculations and determine, in the context of a problem, an appropriate		
To use their knowledge of the order of operations to carry out calculations involving the 4 operations		
To multiply one-digit numbers with up to 2 decimal places by whole numbers		
To 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 for the context		
To divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context		To recognise, describe and build simple 3-D shapes, including making nets
To multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication		To illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding		Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.
Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).	for comparison	To compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
To identify common factors, common multiples and prime numbers	To solve problems involving the calculation of percentages and the use of percentages	To recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
which operations and methods to use and why	where the answer has up to 2 decimal places	Shape (3 weeks)



