

Year 7 scheme of learning

Unit Detail	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Title	<u>Place value, Addition and Subtraction</u>	<u>Multiplication and Division</u>	<u>Units of Metric Measure</u>	<u>FDP</u>	<u>Further Fractions</u>	<u>Understanding and using algebraic notation</u>
Content A	Read and write whole numbers in words and figures, give value of digits	Estimate answers before calculating	scales	Interchange between fractions, decimals and percentages	multiply fractions including with integers and mixed numbers	Describe and continue sequences in diagram and number form
	Order numbers	Grid method multiplication	measuring in different units	equivalent fractions	divide fractions including with integers and mixed numbers	use single function machines and series of two function machines
	Using given numbers, make the largest/smallest number	multiply integers (1 x 2 digit, 2 x 2 digit, x 3 digits etc.)	drawing in different units	simplify fractions	add and subtract fractions, including mixed numbers	Use and interpret algebraic notation
	multiply/divide whole and decimals by powers of 10, use pv table if needed	multiply integers by decimals less than and greater than 1	estimating heights/lengths of objects	mixed and improper fractions		Understand and use inverse operations
	Round whole numbers to the nearest 10, 100, 1000	multiply decimals by decimals	using known measurements to estimate other objects (e.g. height of man to estimate height of house)	compare FDP including mixed numbers and improper fractions		Form and substitute into expressions
	Round whole numbers to significant figures	divide integers, including dividing by 2 digit number	convert between units of measure			Look at basic formula $A=bh$ and use substitution
	Mark the approximate position of a whole number on a numberline	divide decimals by integers				
		worded problems on multiply and divide				
		Find the area of squares and triangles only				
Title	<u>Addition and Subtraction</u>	<u>Primes, multiples and factors</u>	<u>Developing geometric Reasoning</u>	<u>Calculating with Fractions</u>	<u>Percentages</u>	<u>Equality and Equivalence</u>
Content B	Understand that addition is commutative	factors multiples	Name edges, vertices, faces etc.	convert mixed numbers and improper fractions	percentage of amount	Understand equality
	Add with and without a concrete representation and place value tables if needed, including with decimals	HCF/LCM from listing	lines of symmetry and rotational symmetry	write one fraction as a fraction of another	percentage change	Use fact families
	Add mentally (e.g. chunking)	primes and basic indices in preparation for prime factor decomposition	Use and understand labelling notation for angles	Add and subtract fractions with same denominator	percentage increase/decrease	Form and solve one step equations
	Understand that subtraction is not commutative	Prime factor decomposition	Draw angles	Add and subtract fractions one denominator a multiple of the other	express one quantity as a percentage of another	Understand equivalence of algebraic expressions
	Subtract with and without a concrete representation and place value tables if needed, including with decimals	HCF/LCM from prime factor decomposition	Classify angles	Add and subtract fractions different denominator		Collect like terms
	Subtract mentally	Problem solving	recognise types of triangles	Add and subtract fractions and decimals e.g. $3/4+0.2$		
	Compare negative numbers		Calculate and use angle at a straight line, point and vertically opposite			
	Symmetry of subtraction (clip 38 HAN)		Calculate missing angles in triangles and quadrilaterals			