

Year 7 Curriculum

Term	Topic	Details
1	Time	12-hour clock, 24-hour clock, analogue clocks, converting time, interpreting timetables
	The decimal number system	Using place value grids, column method addition and subtraction including decimals, multiplying and dividing by 10 and 100, using related calculations
	Properties of arithmetic	Multiplying and dividing using written methods, generating fact families, multiplying and dividing decimals, using commutativity and associativity of multiplication
	Primes, factors and multiples	Identifying multiples, factors, primes, squares and cubes, finding HCF and LCM
2	Prime factorisation	Write numbers as products of their prime factors, identifying squares from prime factor decomposition, finding HCF and LCM using prime factor decomposition, using index notation for positive integer powers
	Order of operations	Equal and non-equal priority, evaluating expressions with all four operations, evaluating expressions with brackets and indices
	Positive and negative numbers	Absolute value, ordering negatives, zero pairs, adding and subtracting negative numbers, multiplying and dividing negative numbers, fact families with negative numbers
3	Expressions and equations	Expressions, simplifying expressions by multiplications and using indices, substitution, using a calculator effectively, collecting like terms, expanding brackets, algebraic factors, factorising, equality inverse operations, solving equations with brackets
	Coordinates and lines	Plotting points, plotting horizontal and vertical lines, equations of horizontal and vertical lines and $y=x$, finding gradient,

		identifying parallel and perpendicular lines, finding midpoints
4	Angles	Drawing and measuring angles, calculating missing angles, vertically opposite angles, angles in parallel lines, corresponding angles, angles in a triangle, angles in quadrilaterals
	Properties of 2D shapes	Naming polygons, naming triangles, lines of symmetry, naming quadrilaterals, rotational symmetry
	Area and perimeter	Converting between km, m, cm and mm, calculating perimeter, calculating area of rectangles, parallelograms, area of triangles, area and perimeter of compound shapes
5	Conceptualising and comparing fractions	Representing fractions, ordering fractions, converting improper fractions and mixed numbers, simplifying fractions, converting fractions to decimals
	Manipulating and calculating fractions	Fractions of amounts, multiplying fractions, dividing fractions, adding and subtracting fractions
6	Ratio and proportion	Representing ratios, simplifying ratios, scaling ratios, writing ratios in the form 1 : n, dividing into ratios, ratios and fractions
	Representing Data	Drawing and interpreting charts to represent univariate and bivariate data

Each topic is tested through low stakes testing on a regular basis and students receive feedback and the opportunity to improve.

There are 3 main assessment points in the year.