

Topic	Learning Intention
Quadratic Equations	Find the roots of quadratic equations using factorising (HCF, Guide Number)
(3rd Year)	Find the roots of quadratic equations using the quadratic formula (-b formula)
	Form quadratic equations when given roots/graphs
	Solve word problems using quadratic equations
Functions	Substitute values into a function to find outputs
(3rd Year)	Recognise linear and simple non-linear functions from their graphs and equations.
	Understand what a function is and explain it in your own words.
	Recognise and use function notation (e.g. $f(x)$).
Perimeter, Area, Volume	Find the perimeter of 2D shapes (rectangles, triangles, circles etc.)
(2nd Year)	Find the Area of 2D shapes (rectangles, triangles, circles etc.)
	Find the volume of 3D shapes (cuboids, cylinders, spheres etc.)
Algebra 1	Simplifying Algebraic Expressions
(1st/2nd Year)	Multiplying Two Expressions (Brackets)
	Evaluate (Substitute) Expressions and Equations
	Add, Subtract and Multiply Algebraic Fractions
	Solve Linear Equations (Including brackets and fractions)
	Solve word problems using algebra
Algebra 2	Solve and plot linear inequalities on a number line
(2nd Year)	Solve and plot compound linear inequalities with two signs on a number line
Factorising	Find the highest common factor and simplify an expression
	Simplifying expressions by grouping terms and factorising (Grouping)
	Factorise expressions using the difference of two squares
Statistics	Describe and identify different types of data
(1st/2nd Year)	Distinguish between the central tendencies (mean, median and mode)
	Find the central tendencies (mean, median and mode)
	Find the range of a data set
	Create a statistical question
	Critique a statistical question