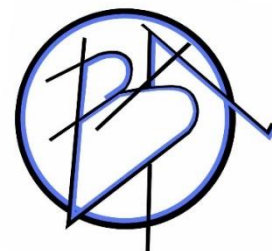# Boclair Academy – S3 Mathematics Course Plan

The table below outlines the units of work we will complete throughout S3 along with a breakdown of the topics within each unit.

Time allocated	Unit	Topic
4 weeks	Expressions	Multiplying out brackets (including double) Factorising including trinomials Completing the square
4 weeks	Algebraic fractions	Recap numerical fractions 4 Operations Simplifying
1 week	Number	Review significant figures Review scientific notation
Assessment 1		
2 weeks	2D/3D Shapes	Arcs and Sectors
3 weeks	Measurement	Volume of prisms and pyramids Working backwards
3 weeks	Surds and Indices	Using and applying indices rules Simplifying Surds Rationalising the denominator
2 weeks	Straight line	Calculate gradient Equation of a straight line
Assessment 2		
3 weeks	Fractions, decimals and percentages	FDP problems 4 operations with fractions Appreciation and depreciation Percentages change over time Reverse percentages
2 weeks	Averages and info handling	Averages Quartiles Standard deviation Scatter graphs and line of best fit
4 weeks	Trigonometry	Area of a triangle Sine rule to calculate side and angle Cosine rule to calculate side and angle Bearings with trigonometry
4 weeks	Vectors	Adding, subtracting, finding a scalar Drawing a vector Calculating the magnitude Vector pathways 3D vectors/coordinates
Assessment 3		