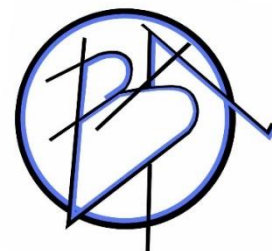# Boclair Academy - S1 Mathematics Course Plan

The table below outlines the units of work we will complete throughout S1 along with a breakdown of the topics within each unit.

If you click on the link in the final column it will direct you to the appropriate area of Maths Workout. From here, you can then select the number for the individual topic to complete tasks on this area of the curriculum.

The login details can be found on your child's Team page and will have been handed out in class.

Time allocated	Unit	Topic	Maths Workout Link
4 weeks	Number	4 operations Order of operations Rounding to decimal places Multiples, factors & primes Read and plot coordinates on a 4 quadrant grid Adding Negative Numbers Subtracting Negative Numbers Multiplying Negative Numbers Dividing Negative Numbers	Number → 1 Number → 9 Number → 16 Number → 6, 7 & 8 Graph → 1 Number → 5 Number → 5 Number → 5 Number → 5
2 weeks	Expressions	Collecting Like Terms Multiplying Terms Substitution (positive and negative numbers) Multiplying single brackets (+ve terms outside bracket) Factorising – Common Factor	Algebra → 2 Algebra → 1 Algebra → 7 Algebra → 3 Algebra → 4
2 weeks	Time and Money	Converting between 12 & 24 clock Time Intervals & Problems Timetables Budgeting Financial literacy Currency conversions	 Number → 3 Ratio, Proportion and Rates of Change → 3

4 weeks	Fractions, Decimals & Percentages	Adding, subtracting, multiplying and dividing decimals	Number → 13
		Equivalent Fractions	Number → 14
		Simplifying Fractions	Number → 14
		Adding and Subtracting Fractions	Number → 14
		Converting between improper fractions and mixed numbers	Number → 14
		Adding and Subtracting Mixed Numbers	Number → 14
		Converting between fractions, decimals & percentages	Ratio, Proportion and Rates of Change → 7
		Calculate fractions of a quantity	Number → 14
		Calculate percentages of a quantity with and without a calculator.	Ratio, Proportion and Rates of Change → 7
2 weeks	Angle and Direction	Complementary and Supplementary	Geometry & Measures → 17
		Angles around a point	Geometry & Measures → 17
		Vertically Opposite Angles	Geometry & Measures → 17
		Corresponding Angles	Geometry & Measures → 17
		Alternate Angles	Geometry & Measures → 17
		Angles in a Triangle	Geometry & Measures → 17
		Angles in a Quadrilateral	Geometry & Measures → 17
		Reading 3 figure Bearings	Geometry & Measures → 8
ASSESSMENT 1			
2 weeks	Integers & Coordinates	Read and plot coordinates on a 4 quadrant grid	Graph → 1
		Adding Negative Numbers	Number → 5
		Subtracting Negative Numbers	Number → 5
		Multiplying Negative Numbers	Number → 5
		Dividing Negative Numbers	Number → 5
3 weeks	Measurement	Perimeter of simple and composite shapes	Geometry & Measures → 12
		Area of Squares & Rectangles	Geometry & Measures → 13
		Area of Parallelogram	Geometry & Measures → 13
		Area of Triangle	Geometry & Measures → 13
		Area of Rhombus	Geometry & Measures → 13
		Area of Kite	Geometry & Measures → 13
		Area of Trapezium	Geometry & Measures → 13
		Area of Compound Shapes	Geometry & Measures → 13
		Volume of Cube & Cuboid	Geometry & Measures → 15
		Volume of Composite Shapes	Geometry & Measures → 15
2 weeks	Equations	Solving one step equations e.g. $x + 1 = 5, \ 5x = 20, \ \frac{x}{4} = 3$	Algebra → 5
		Solving two step equations e.g. $3x + 7 = 28$	Algebra → 5
		Solving equations with unknowns on both sides e.g. $7x - 2 = 3x + 22$	Algebra → 5

2 weeks	Averages	Calculate the Mean of a set of data	Statistics → 2
		Calculate the Median of a set of data	Statistics → 2
		Calculate the Mode of a set of data	Statistics → 2
		Calculate the Range of a set of data	Statistics → 2
		Calculate the Mean, Median, Mode and Range from a frequency table	Statistics → 9
		Calculating simple probability	Probability → 3
2 weeks	2D and 3D Shapes	Calculating the circumference of a circle	Geometry & Measures → 13
		Calculating the area of a circle	Geometry & Measures → 13
		Calculating circumference and area of parts of circles	Geometry & Measures → 13
		Lines of symmetry	Geometry & Measures → 2
		Rotational symmetry	Geometry & Measures → 3
ASSESSMENT 2			