

Key Stage 4 – YEAR 10 MATHS FOUNDATION – 2022-2023  
Curriculum Map for Students

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Overview	<b>Unit 1 – Number</b> <b>Unit 2 - Algebra</b>	<b>Unit 3 – Graphs, tables and Charts</b> <b>Unit 4 – Fractions and Percentages</b>	<b>Unit 5 – Equations, inequalities and sequences</b> <b>Unit 6 - Angles</b>	<b>Unit 7 – Averages and Range</b> <b>Unit 8 – Perimeter, Area and Volume</b>	<b>Unit 9- Graphs</b> <b>Unit 10 - Transformations</b>	<b>Unit 11 – Ratio and Proportion</b> <b>Unit 12 – Right angled triangles</b>
Focus	Unit 1 - Order of operations. Decimal calculations. Place value and rounding. Factors, multiples and prime factors. HCF and LCM. Squares, cubes and roots. Index notations and laws. Unit 2 – Simplifying expressions. Formulae and substitution. Expanding brackets. Factorising expressions.	Unit 3 – Frequency tables. Two-way tables. Time series graphs. Stem and leaf diagrams. Pie Charts. Scatter graphs and using line of best fit. Unit 4 – Calculating with fractions. Converting between fractions, decimals and percentages. Calculating percentages of amounts.	Unit 5 – Solving equations, including with brackets. Representing inequalities on a number line and solving inequalities. Generating sequences and finding the nth term of a sequence. Unit 6 – Properties of shapes. Angles in parallel lines. Exterior and interior angles of polygons.	Unit 7 – Calculating averages and range from lists of numbers and frequency tables. Estimating mean from grouped data. Comparing data sets. Sampling methods. Unit 8 – Area and perimeter of rectangles, triangles, parallelograms and trapezia. Area of compound shapes. Volume and surface area of prisms.	Unit 9 – Coordinates and plotting linear graphs. Gradient and the equation of a straight line. Real life graphs. Unit 10 – Translation. Reflection. Rotation. Enlargement. Describing transformations.	Unit 11- Simplifying and using ratios. Proportion problems. Graphing proportion. Unit 12 – Pythagoras’ Theorem. Using trigonometry to find lengths and angles.
Assessment	<i>Unit test at the end of each topic.</i>	<i>Unit test at the end of each topic.</i>	<i>Unit test at the end of each topic.</i>	<i>Unit test at the end of each topic.</i>	<i>Unit test at the end of each topic.</i>	<i>Unit test at the end of each topic.</i>  <i>End of Year 10 exam</i>