Curriculum Map: KS4 – Working Towards

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Groups Taught	9GB1, 9GB2, 9GC1, 9GC2 9PB1, 9PB2, 9PC1 10GC1, 10GC2 10PC1, 10PC2 11GC1, 11GC2 11PC1, 11PC2					
Topic	Number, powers, roots, decimals and rounding to 10,100,1000.	Fractions, decimals and percentages.	Drawing and interpreting tables and charts.	Mensuration & properties of 2D shapes.	Perimeter and area, Simple angle facts, 3D forms.	Expressions & substituting into simple formulae. Probability.
Intent	Ensure students are resilient learners with the ability to persevere through challenges. Enable students to become deep thinkers who can competently and confidently problem solve and reason.					
Key Knowledge	An understanding of multiplication and division, decimal places and powers of 10.	An understanding of multiplying and dividing. An understanding of common factors.	An understanding of addition and division.	An understanding of addition and subtraction.	An understanding of addition, subtraction, multiplication, and division.	An understanding of addition, subtraction, multiplication, and division. An understanding of equivalent fractions and simplifying fractions.
Key Skills	Calculating powers and roots of numbers. Rounding numbers to powers of 10, significant figures and decimal places.	Converting between mixed numbers and improper fractions. Calculating equivalent fractions. Simplifying fractions. Multiplying and dividing fractions Finding fractions of amounts.	Know the difference between discrete, continuous, and qualitative data. Calculating mean, median, and mode. Calculating the midpoint of two numbers. Drawing and interpreting pictograms and bar charts.	Identify and name different types of angles and parallel and perpendicular lines. Calculating missing angles. Know the names of parts of a circle.	Calculating perimeter and area of different shapes and compound shapes.	Substituting values into expressions. Know the difference between expressions, equations, and identities. Simplifying expressions. Calculating probabilities. Complete and use frequency trees, sample space diagrams, and two way tables to calculate probabilities.
Key Vocabulary	Power Root Round Decimal place Significant figure Integer	Numerator Denominator Equivalent Simplest form Improper fraction Mixed number	Data Qualitative Quantitative Discrete Continuous Mean Median Mode Midpoint Pictogram Bar chart	Acute, Obtuse Reflex Right angle Parallel Perpendicular Radius Diameter Circumference Chord Triangle Quadrilateral Pentagon Hexagon Heptagon Octagon	Perimeter Area Rectangle Triangle Parallelogram Trapezium	Substitute Expression Equation Identity Term Simplify Probability Frequency tree Sample space diagram Two way table

Key Reading	Sparx Maths
	Individual Mathematics exercise books
	Microsoft Teams work
End Point	Fluency demonstrated in lessons, applying knowledge and understanding in problem solving exam style questions.
Form of Assessment	End of unit assessment including section for prior learning.
Enrichment opportunities	UKMT Maths challenge
	UKMT team Maths challenge