

CURRICULUM OVERVIEW – YEARS 9, 10 & 11

Years 9, 10 and 11 Topics are taught in this order over a period of 2 ½ years, leaving time to revisit topics before the GCSE.

Foundation	Higher
Integers and place value	Factors, multiples, primes, indices - use of calculator
Decimals	Algebraic expressions and manipulation
Algebra – the basics	Averages, range, quartiles and IQR
Statistics	Angles
Averages	Decimals and Rounding
Angles/Lines of Symmetry	Fractions
Polygons and parallel lines	Sequences
Indices, powers and roots	Linear Graphs
Factors, multiples and primes	Collecting data / Representing and interpreting data - easier charts and graphs
Equations	Sampling
Tables	Area, perimeter, surface area and volume
Averages from charts and graphs	Percentages
Perimeter and area (not surface area)	Solving linear equations / Changing the subject of a formula / Using formulas
Fractions	Pythagoras Theorem
Ratio	Ratio and proportion
Expand and factorise single brackets	Standard form
Translation (not describe)	Fractional and negative indices
Rotation (not describe)	Transformations
Reflection (not describe)	Solving linear simultaneous equations
Enlargement (not describe)	Probability
Fractions, decimals and percentages	Surds
Percentages (not increase/decrease, interest, VAT, no multiplier)	Pythagoras' Theorem / Right-angled trigonometry
Pie Charts	Linear Inequalities
Scatter diagrams	Cumulative Frequency / Box Plots
Expressions and substitution (no deriving of formula)	Constructions / Loci / Bearings
Sequences – not quadratic, not geometric	Bounds
Plotting straight line graphs	Harder sequences
Plans, elevations, nets and surface areas	Venn diagrams
Volume	Harder area, perimeter, surface area and volume
Probability 1	Solving quadratic equations
Probability 2 with Venn diagrams (not including tree diagrams)	Similarity and congruence
Inequalities	Compound measures / Real-life graphs
Interior and exterior angles	Drawing graphs: quadratic, cubic, reciprocal, circles
Proportion	Circle Theorems

Bearings	Vectors
Constrution	Direct and Inverse Proportion
Loci	Non Right Angled Trigonometry
Averages from frequency tables	Parallel and Perpendicular Lines
Indices and standard form	Histograms
Fractions and reciprocals	Algebraic Fractions
Real life graphs	Use function notation
Compound measures/rates of change	Exponential Graphs
$y=mX+c$	Simultaneous Equations using Quadratics
Describing translations	Transformations of graphs – inc Trig Curves
Describing rotations	Iteration
Describing reflections	Area Under The Graph + Gradients Of Graphs
Describing enlargements	Proof
Percentages 2 (increase/decrease, multiplier, tax)	Graphing inequalities and solving quadratic Inequalities
Pythagoras	Equations of Tangents
Circles, cylinders, cones and spheres	
Simultaneous equations	
Probability trees	
Quadratic sequences	
Quadratic equations, expanding and factorising	
Quadratic, cubic and reciprocal graphs	
Right angled trigonometry	
Rearranging formula	
Similarity and congruence	
Vectors	