

KEY STAGE 4 CONTENT

Autumn term Year 10	Spring term Year 10	Summer term Year 10 (Foundation tier)	Summer term Year 10 (Higher tier) As foundation PLUS
UNIT 1 – Percentages Revision of basics Original value problems Simple Interest Compound interest Growth and Decay	UNIT 5 – Graphs Constructing linear graphs Midpoints and coordinates Equations of linear graphs Parallel and perpendicular Real-Life graphs Quadratic graphs	UNIT 9 – Proportion Graphs of proportion Direct proportion Inverse Proportion Proportion equations Bias and sampling	UNIT 9 – Proportion Combining proportion equations
UNIT 2 – Geometry Area and perimeter basics Sectors and Arcs Surface area Volume Cylinders, Cones and Spheres	UNIT 6 – Probability Basic probability revision Conditional probability Venn Diagrams Set Notation Tree diagrams Conditional probability formula	UNIT 10 – Transformations Translation Reflection Rotation Enlargement Fractional scale factors	UNIT 10 – Transformations Negative scale factors Geometric proof Combining transformations
UNIT 3 – Equations and Formulae Solving equations Simultaneous equations Expanding brackets Factorising Rearranging formulae	UNIT 7 – Compound Measures and Ratio Converting units of area and volume Pressure, Density and Speed calculations Dividing in a ratio Algebra and ratio Combining ratios	UNIT 11 – Approximation and Indices Truncation and rounding Error Intervals Significant figures Index rules Negative indices Algebraic fractions	UNIT 11 – Approximation and Indices Bounds Fractional Indices
UNIT 4 – Trigonometry and construction Angles revision Pythagoras Theorem Trigonometry Constructions Loci Bearings Scale Drawings Similarity Congruence.	UNIT 8 – Sequences and non-linear graphs Distance-time graphs Speed-time graphs Quadratic graphs Cubic graphs Reciprocal graphs Exponential graphs Sequences revision Special sequences Geometric sequences Quadratic sequences	UNIT 12 – Brackets Simplifying expressions Factorising quadratics Solving quadratics HCF and LCM The difference of two squares	UNIT 12 – Brackets Completing the square Sketching quadratics Triple Brackets
		UNIT 13 – Handling data Averages and range Frequency tables Two-way tables Stem and leaf diagrams Frequency polygons Interpreting charts Revision of basic charts	UNIT 13 – Handling data Box-Plots Cumulative frequency graphs
SUMMATIVE ASSESSMENT 1	SUMMATIVE ASSESSMENT 2	SUMMATIVE ASSESSMENT 3	SUMMATIVE ASSESSMENT 3

KEY STAGE 4 CONTENT

Autumn term Year 11 - Foundation	Autumn term Year 11 - Higher	Spring term Year 10 (Foundation tier)	Spring term Year 10 (Higher tier) As foundation PLUS
Unit 14 – Types of Numbers Factors, Multiples, Primes Prime factor decomposition HCF and LCM Powers and roots	Unit 14 – Surds Simplifying surds Calculating with surds Rationalising denominators	Unit 20 – Probability Tree Diagrams Venn Diagrams Sample space Relative Frequency	Unit 20 – Probability Conditional probability Using equations Product rule
Unit 15 – Fractions Addition and subtraction Multiplication Division Ordering	Unit 15 – Algebraic fractions Addition and subtraction Multiplication and division Simplifying Solving	Unit 21 – Inequalities Drawing inequalities Writing inequalities Solving inequalities	Unit 21 – Inequalities Drawing inequalities Writing inequalities Solving inequalities Quadratic inequalities
Unit 16 – Expressions Writing expressions Expanding brackets Factorising Index laws	Unit 16 – Equations Quadratic Equations Simultaneous equations Quadratic simultaneous equations	Unit 22 – Vectors Writing and drawing vectors Parallel vectors Adding and subtracting vectors	Unit 22 – Functions Substitution Inverse Functions Compound Functions
Unit 17 – Equations Solving Equations Simultaneous Equations	Unit 17 – Pythagoras and Trigonometry 3D Pythagoras 3D Trigonometry Sine Rule Cosine Rule Area of a triangle Trigonometric graphs Unit 18 – Circle Geometry Circle theorems Circle theorem proof Graphs of circles Unit 19 – Statistics Histograms	Unit 23 – Percentages Original value problems Simple Interest Compound interest Growth and Decay	Unit 23 – Transformations Graphs revision Transformation of graphs
Unit 18 – Geometry Calculating missing angles Pythagoras Trigonometry Surface Area Volume		Unit 24 – Multiplicative reasoning Compound measures Ratio Proportion	Unit 24 – Iteration and Proof Iteration process Algebraic proof
Unit 19 – Statistics Pie Charts Scatter Diagrams		Unit 25 – Standard Form Writing in standard form Standard form calculations	Unit 25 – Similarity and Proof Similarity and congruence Similarity in 3D Geometric proof
		Unit 26 – Sequences and graphs Linear sequences Linear graphs - equations	Unit 26 – Graphs Area under a graph Tangent to a graph Exponential graphs
MOCK EXAMS	MOCK EXAMS	SUMMATIVE ASSESSMENT 4	SUMMATIVE ASSESSMENT 4