Year 1	
Teacher A	Teacher B
Algebra and Functions 1a	Algebra and Functions 1b
Manipulating polynomials	Factor and Remainder Theorem
Expanding multiple binomials	Algebraic Division
Binomial Expansion	Laws of Indices
Factorisation	Manipulating Surds
Coordinate Geometry	Rationalising the denominator
Straight Line Graphs Parallel and Perpendicular Lines	Algebra and Functions 2 Quadratic Functions and the Discriminant
Straight Line Modelling	Completing the square
Algebra and Function 3	Solving Quadratics
Sketching Quadratics and Cubics	Solving Simultaneous Equations
Sketching Quartics and reciprocal graphs	Solving Quadratic Simultaneous Equations
Intersection of points	Solving Quadratic inequalities
Proportional Relationships	
Translations	Data Presentation
Stretches	Measures of Central Tendency
Coordinate Geometry 2	Measures of Spread
Equations of Circles	Variance and Standard Deviation
Equations of Circles 2	Data Cleaning Outliers and Standard Deviation
Angles in Semi circles Perpendicular to a Chord	Linear Coding
Radius and Tangents	Box and Whisker and Cumulative Frequency
Trigonometry	Histograms
Sine, Cosine and Tangent	Scatter Graphs
Sine and Cosine Rule	Regression lines
Trigonometrical Graphs	Differentiation
Tangent Function	Gradient of a Curve
Solving Trigonometrical Equations	Differentiation of x ² and x ³
Exponentials and Logs	Differentiation of a Polynomial
The function a ^x	Stationary Points and the 2nd Derivative
Logarithms	Tangents and Normals
The equation a ^x = b	Probability
Logarithmic Graphs	Calculating Probability
The number e	Discrete and Continuous Data
Natural Logs	Binomial Distribution 2
Kinematics The Language of Kinematics	Integration
The Language of Kinematics Displacement-Time and Velocity-Time Graphs	Indefinite Integrals Area under a Curve
Equations of constant acceleration	Vectors
Vertical Motion	Definition of a vector
Variable Acceleration	Adding Vectors
Forces	Vector Geometry
Newton's Laws of motion	Position vectors
Vertical Motion	Modelling with Vectors
Connected Particles	Sampling and Hypothesis Testing
Pulleys	Populations and Samples
Functions and Modelling	Hypothesis testing
The modulus function	Significance Levels
Composite functions	Proof Proof by deduction
Inverse functions Transformations	Proof by exhaustion
Sketching with the modulus function	Disproof by counter example
Solving modulus problems	Proof by contradiction
Solving modulus problems	Algebra and Partial Fractions
	Simplifying algebraic fractions
	Partial fractions
	Repeated Factors
	The Binomial Theorem
	Expanding (1 + bx)n n rational
	Expansion of functions by first using partial fractions

Year 2	
Teacher A	Teacher B
Regression and Correlation	Moments
Change of variable	Resultant Moments
Correlation coefficients	Equilibrium of a Uniform Rod
Statistical hypothesis testing for zero correlation	Centres of Mass
Series and Sequences	Tilting
Arithmetic and Geometric sequences	Trigonometry
Arithmetic Series	Radians
Geometric Series	Small angles and Trigonometry
Sum to Infinity of a GS	Secant, cosecant and cotangent
Sigma notation Recurrence and iterations	Trigonometrical identities and inverses. The Addition Formulae
Modelling with series	The Double angle and Half angle formulae
Parametric Equations	Solving Trigonometrical equations
Converting between parametric and Cartesian forms	$R \cos(x \pm \alpha)$ or $R \sin(x \pm \alpha)$
Curve sketching and Intersections	Proving trigonometrical Identities
Modelling with Parametric Equations	Modelling with Trigonometry
Probability	Forces at any angle
Using set notation for probability/ Conditional probability	Resolving forces
Conditional Probability and Venn Diagrams	Inclined Planes
The Probability Formulae	Friction forces
Tree Diagrams	Numerical Methods
Questioning assumptions in probability	Location of roots
Differentiation	Solving by iterative methods
Differentiating sin x and cos x from first principles	Cobweb Diagrams
Differentiating exponentials	Newton-Raphson method
Differentiating logarithms	The Normal Distribution
The Chain Rule	Understanding the Normal distribution
The Product Rule	Finding probabilities from the Normal Distribution
The Quotient Rule	The Inverse Normal Function
Differentiation of Trig functions	The Standardized Normal Function
Differentiation of Parametric Functions	Finding the mean and standard deviation.
Implicit Differentiation	Applications of Kinematics - Projectiles
Rates of change problems	Horizontal Projection
Integration1	Vertical Projection
Integrating Standard Functions	Projection at any angle
Integrating Standard Functions II	Projectile Motion Formulae
Integrating f(ax + b)	Applications of Forces
Using the reverse of the Chain Rule	Statics of a Particle
Using trigonometric identities to manipulate integrals	Modelling with Statics
The Normal Distribution The Binomial Distribution	Friction and statics Statics of Rigid Bodies
Applying Continuity Correction when Approximating Binomial -	Dynamics and Inclined Planes
Approximating Binomial with the Normal Distribution.	Further Kinematics
Integration 2	Vectors in Kinematics
Integration by Substitution	Vectors and Projectiles
Integration by parts	Variable acceleration in 1D
Use of partial fractions	Differentiating Vectors
Area under a graph using limits of a sum	Integrating Vectors
Areas under Graphs - working Parametrically.	The Normal Distribution
The trapezium rule	The Mean Distribution
Differential equations	Hypothesis testing with the mean
Modelling with Differential Equations	Mixed Hypothesis testing
Vectors (3D)	
3D Coordinates	
Vectors in 3D	
Solving Geometric Vector Problems	
Applications to Mechanics	
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