MATHEMATICS - KS5

Year 12	Year 13
Half Term 1	Half Term 1
□□□□□surds, indices, simultaneous equations, inequalities, co-ordinate geometry, series, quadratics, curve sketching, transformations, diferentiation, integration.	□□□□□algebraic fractions, exponentials and logarithms, numerical solutions, Newton Raphson, differentiation, functions, modulus functions, trigonometry, small angle approximations.
Half Term 2	Half Term 2
□□□□□□actor theorem, factorising cubics, sine and cosine rules, area of a triangle, logs, circle geometry.	DDDDpartial fraction, parametric equations, binomial expansion.
□ □□□□□□□□□vectors, velocity-time graphs, constant acceleration equations, variable acceleration.	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Half Term 3	Half Term 3
□□□□□binomial expansion, radians, geometric series.	DDDDdiferentiation of compound functions, product rule, quotient rule. 3D vectors.
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Half Term 4	Half Term 4
□□□□□rig graphs, equations and identities.	□□□□□ntegration methods including substitution, integration by parts, numerical integration.
	□ □□□□□□□inclined planes.

