

# Edexcel A Level Maths - Pure

## Topic Checklist - Year 1 (AS)

Section	Topic	Studied (✓ / X)	Notes (✓ / X)	Topic Qus 1 (%)	Topic Qus 2 (%)
1. Algebraic expressions	Indices				
	Surds				
	Expanding & Factorising Polynomials				
2. Quadratics	Solving quadratics				
	Completing the square				
	Using the discriminant				
	Quadratic functions & their graphs				
3. Equations & inequalities	Simultaneous equations				
	Inequalities				
	Graphs & finding regions				
4. Graphs & transformations	Sketching cubics & quartics				
	Reciprocal graphs				
	Points of intersection				
	Transformations of graphs				
5. Straight line graphs	Equation of a straight line				
	Parallel, Perpendicular & Length				
	Modelling with straight lines				
6. Circles	Midpoints & Perpendicular Bisectors				
	Equation of a circle				
	Tangents & chords				
	Triangles in circles				
7. Algebraic methods	Algebraic long division & Factor Theorem				
	Proof				
8. Binomial Expansion	Binomial expansion				
9. Trigonometric ratios	Sine rule, Cosine rule & area of a triangle				
	Graphs of Sin/Cos/Tan & transformations				
10. Trig identities & equations	Trig of all angles inc. exact values				
	Solving trig for the angle within a range				
	Basic trig identities				
11. Vectors	Solving Geometric problems & modelling				
12. Differentiation	Basic Differentiation				
	Derivation of differentiation				
	Tangents & Normals				
	Stationary points				
	Sketching gradient functions				
	Modelling with differentiation				
	Increasing & Decreasing Functions				
13. Integration	Basic Integration				
	Definite Integrals & Area				
	Area between a curve & lines				
14. Exponentials & Logarithms	Exponentials, sketching & modelling				
	Logs: Laws & solving equations				
	Using Logs on Non Linear data				