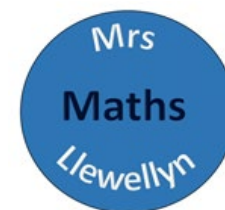


Specification A-Level EDEXCEL Maths

Year 1 PURE MATHS

1. Algebraic Expression		2. Quadratics		3. Equations & inequalities		4. Graphs & transformations	
1.1	Index laws	2.1	Solving quadratic equations	3.1	Linear simultaneous equations	4.1	Cubic graphs
1.2	Expanding brackets	2.2	Completing the square	3.2	Quadratic simultaneous equations	4.2	Quartic graphs
1.3	Factorising	2.3	Functions	3.3	Simultaneous equations on graphs	4.3	Reciprocal graphs
1.4	Negative & fractional indices	2.4	Quadratic Graphs	3.4	Linear inequalities	4.4	Points of intersection
1.5	Surds	2.5	The discriminant	3.5	Quadratic inequalities	4.5	Translating graphs
1.6	Rationalising denominators	2.6	Modelling with quadratics	3.6	Inequalities on graphs	4.6	Stretching graphs
				3.7	Regions	4.7	Transforming functions
5. Straight line graphs		6. Circles		7. Algebraic methods		8. Binomial expansion	
5.1	$y = mx + c$	6.1	Midpoints & perpendicular bisectors	7.1	Algebraic fractions	8.1	Pascal's triangle
5.2	Equations of straight lines	6.2	Equations of a circle	7.2	Dividing polynomials	8.2	Factorial notation
5.3	Parallel & perpendicular lines	6.3	Intersection of straight line & circle	7.3	The Factor Theorem	8.3	The binomial expansion
5.4	Length & area	6.4	Use tangent & chord properties	7.4	Mathematical proof	8.4	Solving binomial problems
5.5	Modelling with straight lines	6.5	Circles & triangles	7.5	Methods of proof	8.5	Binomial estimation



Specification A-Level EDEXCEL Maths

Year 1 PURE MATHS

9. Trigonometric ratios		10. Trigonometric identities and equations		11. Vectors	
9.1	The cosine rule	10.1	Angles in all four quadrants	11.1	Vectors
9.2	The sine rule	10.2	Exact values of trigonometric ratios	11.2	Representing vectors
9.3	Areas of triangles	10.3	Trigonometric identities	11.3	Magnitude & direction
9.4	Solving triangle problems	10.4	Simple trigonometric equations	11.4	Position vectors
9.5	Graphs of sine, cosine and tangent	10.5	Harder trigonometric equations	11.5	Solving geometric problems
9.6	Transforming trigonometric graphs	10.6	Equations & identities	11.6	Modelling with vectors

12. Differentiation		13. Integration		14. Exponentials & logarithms	
12.1	Gradients of curves	13.1	Integrating x^n	14.1	Exponential functions
12.2	Finding the derivative	13.2	Indefinite integrals	14.2	$y = e^x$
12.3	Differentiating x^n	13.3	Finding functions	14.3	Exponential modelling
12.4	Differentiating quadratics	13.4	Definite integrals	14.4	Logarithms
12.5	Differentiating functions with 2 or more terms	13.5	Area under curves	14.5	Laws of logarithms
12.6	Gradients, tangents and normal	13.6	Areas under the x-axis	14.6	Solving equations using logarithms
12.7	Increasing and decreasing functions	13.7	Areas between curves and lines	14.7	Working with natural logarithms
12.8	Second order derivative			14.8	Logarithms & non-linear data
12.9	Stationary points				
12.10	Sketching gradient functions				
12.11	Modelling with differentiation				

