A-LEVEL (YEAR 1) KEY MATHEMATICAL VOCABULARY

Pure

Algebra And Functions	Coordinate Geometry	Further Algebra	Trigonometry	Vectors	Differentiation	Integration	Exponentials And Logarithms
Expression	Equation	Binomial	Sine	Vector	Differentiation	Calculus	Exponential
Function	Bisect	Coefficient	Cosine	Scalar	Derivative	Differentiate	Exponent
Constant	Centre	Probability	Tangent	Magnitude	First Principles	Integrate	Power
Variable	Chord	Proof	Interval	Direction	Rate Of Change	Reverse	Logarithm
Term	Circle	Assumptions	Period	Component	Rational	Indefinite	Base
Unknown	Circumcircle	Deduction	Amplitude	Parallel	Constant	Definite	Initial
Coefficient	Coefficient	Exhaustion	Function	Perpendicular	Tangent	Constant	Rate Of Change
Index	Constant	Disproof	Inverse	Modulus	Normal	Evaluate	Compound Interest
Linear	Diameter	Counter-Example	Angle Of Elevation	Dimension	Increasing	Intersection	
Identity	Gradient	Polynomials	Angle Of Depression	Ratio	Decreasing		
Simultaneous	Hypotenuse	Factorisation	Bearing	Collinear	Stationary Point		
Elimination	Intercept	Quadratic	Degree	Scalar Product	Maximum		
Substitution	Isosceles	Cubic	Identity	Position Vectors	Minimum		
Factorise	Linear	Quartic	Special Angles		Integer		
Completing The Square	Midpoint	Conjecture	Unit Circle		Calculus		
Intersection	Parallel	Prediction	Symmetry		Function		
Change The Subject	Perpendicular	Rational Number	Hypotenuse		Parallel		
Cross-Multiply	Proportion	Implies	Opposite		Perpendicular		
Power	Pythagoras	Necessary	Adjacent				
Exponent	Radius	Sufficient	Intercept				
Base	Right Angle	Converse					
Rational	Segment	Fully Factorise					
Irrational	Semicircle	Factor					
Reciprocal	Simultaneous	Expand					
Root	Tangent	Therefore					
Standard Form		Conclusion					
Surd							
Rationalise							
Exact							
Manipulate							
Sketch							
Plot							
Quadratic							
Maximum							
Minimum							
Turning Point							
Transformation							
Translation							
Polynomial							
Discriminant							
Real Roots							
Repeated Roots							
Factor Theorem							
Quotient							
Intercepts							
Inequality							
Asymptote							

Statistics

Sampling	Data Presentation And Representation	Probability	Distributions	Hypothesis Testing
Population	Histogram	Sample Space	Binomial	Hypotheses
Census	Box Plot	Exclusive Event	Probability	Significance Level
Sample	Probability Density Function	Complementary Event	Discrete Distribution	One-Tailed Test
Sampling Unit	Cumulative Distribution Function	Discrete Random Variable	Discrete Random Variable	Two-Tailed Test
Sampling Frame	Continuous Random Variable	Continuous Random Variable	Uniform	Test Statistic
Simple Random Sampling	Scatter Diagram	Mathematical Modelling	Cumulative Probabilities	Null Hypothesis
Stratified	Linear Regression	Independent		Alternative Hypothesis
Systematic	Explanatory (Independent) Variables	Mutually Exclusive		Critical Value
Quota	Response (Dependent) Variables Interpolation	Venn Diagram		Critical Region
Opportunity (Convenience)	Extrapolation	Tree Diagram		Acceptance Region
	Product Moment Correlation Coefficient (Pmcc)			P-Value
	Mean			Binomial Model
	Median			Accept
	Mode			Reject
	Variance			Sample
	Standard Deviation			Inference
	Range			
	Interquartile Range			
	Interpercentile Range			
	Outlier			
	Skewness			
	Symmetrical			
	Positive Skew			
	Negative Skew			

Mechanics

Quantities And Units	Kinematics	Forces And Newton's Laws	Variable Acceleration
Modelling	Distance	Force	Distance
Smooth	Displacement	Newtons	Displacement
Rough	Speed	Mass	Velocity
Light	Velocity	Weight	Speed
Inelastic	Acceleration	Gravity	Constant Acceleration
Inextensible	Retardation	Tension	Variable Acceleration
Particle	Deceleration	Thrust	Retardation
Rigid Body	Scalar	Compression	Deceleration
Mass	Vector	Air Resistance	Gradient
Weight	2D	Reaction	Area
Rod	Linear	Driving Force	Differentiate
Plane	Area	Braking Force	Integrate
Lamina	Trapezium	Resultant	Rate Of Change
Length	Gradient	Force Diagram	Straight-Line Motion
Distance (M)	Equations Of Motion	Equilibrium	With Respect To Time
Displacement (M)	Gravity	Inextensible	Constant Of Integration
Velocity	Constant	Light	Initial Conditions
Speed	9.8 M S–2	Negligible	
Acceleration	Vertical	Particle	
Force		Smooth	
Retardation		Uniform	
Newtons		Pulley	
Scalar		String	
Vector		Retardation	
Direction		Free Particle	
Magnitude			
(Normal) Reaction			
Friction			
Tension			
Thrust			
Compression			