

Revision Schedule 2026-2027



Year 13 Revision Schedule 2026/7

Topics highlighted in blue will be assessed in the October/ November trial exams

Subject/Course:		Edexcel A-level Maths									
AS Maths - Pure PLC											
1: Algebra and functions											
a	Algebraic expressions – basic algebraic manipulation, indices and surds					Covered	R	A	G	Revised	Resources/Activities/Links
	i	Index Laws									
	ii	Expanding Brackets									
	iii	Factorising									
	iv	Negative and fractional indices									
	v	Surds									
	vi	Rationalising denominators									
b	Quadratic functions – factorising, solving, graphs and the discriminants					Covered	R	A	G	Revised	
	i	Solving quadratic equations									
	ii	Completing the square									
	iii	Functions									
	iv	Quadratic Graphs									
	v	The discriminant									
	vi	Modelling with quadratics									
c	Equations – quadratic/linear simultaneous					Covered	R	A	G	Revised	

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	i	Linear Simultaneous Equations						
	ii	Quadratic Simultaneous equations						
	iii	Simultaneous equations on graphs						
d	Inequalities – linear and quadratic (including graphical solutions)		Covered	R	A	G	Revised	
	i	Linear inequalities						
	ii	Quadratic inequalities						
	iii	Inequalities on graphs						
	iv	Regions						
e	Graphs – cubic, quartic and reciprocal		Covered	R	A	G	Revised	
	i	Cubic Graphs						
	ii	Quartic Graphs						
	iii	Reciprocal Graphs						
	iv	Points of Intersection						
f	Transformations – transforming graphs – $f(x)$ notation		Covered	R	A	G	Revised	
	i	Translating Graphs						
	ii	Stretching Graphs						
	iii	Transforming Functions						
2: Coordinate geometry in the (x, y) plane								
a	Straight-line graphs, parallel/perpendicular, length and area problems		Covered	R	A	G	Revised	
	i	$y = mx + c$						
	ii	Equation of straight lines						
	iii	Parallel and Perpendicular lines						
	iv	Length and area						

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	v	Modelling with straight lines						
b		Circles – equation of a circle, geometric problems on a grid	Covered	R	A	G	Revised	
	i	Midpoints & Perpendicular bisectors						
	ii	Equation of a circle						
	iii	Intersections of straight lines and circles						
	iv	Use tangent and chords properties						
	v	Circles and triangles						
3: Further algebra								
a		Algebraic division, factor theorem and proof	Covered	R	A	G	Revised	
	i	Algebraic Fractions						
	ii	Dividing Polynomials						
	iii	The factor theorem						
	iv	Mathematical proof						
	v	Methods of proof						
b		The binomial expansion	Covered	R	A	G	Revised	
	i	Pascal's triangle						
	ii	Factorial notation						
	iii	The binomial expansion						
	iv	Solving binomial problems						
	v	Binomial estimation						
4: Trigonometry								
a		Trigonometric ratios and graphs	Covered	R	A	G	Revised	
	i	The cosine rule						

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	ii	The sine rule						
	iii	Area of triangles						
	iv	Solving triangle problems						
	v	Graphs of sine, cosine and tangent						
	vi	Transforming trigonometric graphs						
b	Trigonometric identities and equations		Covered	R	A	G	Revised	
	i	Angles in all four quadrants						
	ii	Exact values of trigonometric ratios						
	iii	Trigonometric identities						
	iv	Simple trigonometric equations						
	v	Harder trigonometric equations						
	vi	Equations and identities						
5: Vectors (2D)								
a	Definitions, magnitude/direction, addition and scalar multiplication		Covered	R	A	G	Revised	
	i	Vectors						
	ii	Representing vectors						
	iii	Magnitude and direction						
b	Position vectors, distance between two points, geometric problems		Covered	R	A	G	Revised	
	i	Position Vectors						
	ii	Solving geometric problems						
	iii	Modelling with vectors						
6: Differentiation								
a	Definition, differentiating polynomials, second derivatives		Covered	R	A	G	Revised	

	i	Gradients of curves						
	ii	Finding the derivative						
	iii	Differentiating x^n						
	iv	Differentiating quadratics						
	v	Differentiating functions with two or more terms						
	vi	Second order derivatives						
b	Gradients, tangents, normals, maxima and minima		Covered	R	A	G	Revised	
	i	Gradients , tangents and normals						
	ii	Increasing and decreasing functions						
	iii	Stationary points						
	iv	Sketching gradient functions						
	v	Modelling with differentiation						
7: Integration								
a	Definition as opposite of differentiation, indefinite integrals of x^n		Covered	R	A	G	Revised	
	i	Integrating x^n						
	ii	Indefinite integrals						
	iii	Finding functions						
b	Definite integrals and areas under curves		Covered	R	A	G	Revised	
	i	Definite integrals						
	ii	Areas under curves						
	iii	Areas under the x-axis						
	iv	Areas between curves and lines						
8: Exponentials and logarithms								

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a	Exponential functions and natural logarithms	Covered	R	A	G	Revised	
i	Exponential functions						
ii	$y = e^x$						
iii	Exponential modelling						
iv	Logarithms						
v	Laws of logarithms						
vi	Solving equations using logarithms						
vii	Working with natural logarithms						
viii	Logarithms and non-linear data						

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AS Maths - Applied PLC												
1: Statistics												
a	Data Collection					Covered	R	A	G	Revised		
	i	Populations and samples										
	ii	Sampling										
	iii	Non-random sampling										
	iv	Types of data										
	v	The large data set										
b	Measures of location and spread					Covered	R	A	G	Revised		
	i	Measures of central tendency										
	ii	Pther measures of location										
	iii	Measures of spread										
	iv	Variance and standard deviation										
	v	Coding										
c	Representations of data					Covered	R	A	G	Revised		
	i	Outliers										
	ii	Box plots										
	iii	Cumulative frequency										
	iv	Histograms										

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	v	Comparing data						
d		Correlation	Covered	R	A	G	Revised	
	i	Correlation						
	ii	Linear regression						
e		Probability	Covered	R	A	G	Revised	
	i	Calculating probabilities						
	ii	Venn diagrams						
	iii	Mutually exclusive and independent events						
	iv	Tree diagrams						
f		Statistical distributions	Covered	R	A	G	Revised	
	i	Probability distributions						
	ii	The binomial distribution						
	iii	Cumulative Probabilities						
g		Hypothesis Testing	Covered	R	A	G	Revised	
	i	Hypothesis Testing						
	ii	Finding critical values						
	iii	One-tailed tests						
	iv	Two-tailed tests						
2: Mechanics								
a		Modelling in mechanics	Covered	R	A	G	Revised	
	i	Constructing a model						
	ii	Modelling assumptions						
	iii	Quantities and units						

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	iv	Working with vectors						
b		Constant acceleration	Covered	R	A	G	Revised	
	i	Displacement-time graphs						
	ii	Velocity-time graphs						
	iii	Constant acceleration formulae 1						
	iv	Constant acceleration formulae 2						
	v	Vertical motion under gravity						
c		Forces and motion	Covered	R	A	G	Revised	
	i	Force diagrams						
	ii	Forces as vectors						
	iii	Forces and acceleration						
	iv	Motion in 2 dimensions						
	v	Connected particles						
	vi	Pulleys						
d		Variable acceleration	Covered	R	A	G	Revised	
	i	Functions of time						
	ii	Using differentiation						
	iii	Maxima and minima problems						
	iv	Using integration						
	v	Constant acceleration formulae						

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A Level Maths - Pure PLC							
1: Proof							
a	Examples including proof by deduction, proof by exhaustion and disproof by counter example	Covered	R	A	G	Revised	
i	Proof by Contradiction						
2: Algebra & Partial Fractions							
a	Simplifying algebraic functions	Covered	R	A	G	Revised	
i	Simplifying algebraic fractions						
b	Partial fractions	Covered	R	A	G	Revised	
i	Partial fractions						
ii	Repeated factors						
iii	Algebraic division						
3: Functions and Modelling							
a	Modulus function	Covered	R	A	G	Revised	
i	The modulus functions						
b	Composite and inverse functions	Covered	R	A	G	Revised	
i	Functions and mappings						

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	ii	Composite functions						
	iii	Inverse functions						
	iv	$y = f(x) $ and $y = f(x)$						
c	Transformations		Covered	R	A	G	Revised	
	i	Combining transformations						
d	Modelling with functions (trigonometric, exponential, reciprocal, etc.)		Covered	R	A	G	Revised	
	i	Solving modulus problems						
4: Series and sequences								
a	Arithmetic and geometric progressions		Covered	R	A	G	Revised	
	i	Arithmetic sequences						
	ii	Arithmetic series						
	iii	Geometric sequences						
	iv	Geometric series						
	v	Sums to infinity						
b	Sigma notation		Covered	R	A	G	Revised	
	i	Sigma notation						
c	Recurrence and iterations		Covered	R	A	G	Revised	
	i	Recurrence relations						
	ii	Modelling with series						
5: The binomial theorem								
a	Expanding $(a + bx)^n$ for rational n		Covered	R	A	G	Revised	
	i	Expanding $(1 + x)^n$						
	ii	Expanding $(a + bx)^n$						

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b	Expansion of functions - using partial fractions	Covered	R	A	G	Revised	
i	Using partial fractions						
6: Trigonometry							
a	Radians	Covered	R	A	G	Revised	
i	Radian measure						
ii	Arc length						
iii	Areas of sectors and segments						
iv	Solving trigonometric equations						
b	Small angles	Covered	R	A	G	Revised	
i	Small angle approximations						
c	Secant, Cosecant and cotangent	Covered	R	A	G	Revised	
i	Secant, cosecant and cotangent						
ii	Graphs of sec x, cosec x and cot x						
iii	Using sec, cosec and cot						
iv	Trigonometric identities						
v	Inverse trigonometric functions						
d	Compound and double angles	Covered	R	A	G	Revised	
i	Addition formulae						
ii	Using the angle addition formulae						
iii	Double angle formulae						
iv	Solving trigonometric equations						
e	Rcos and Rsin	Covered	R	A	G	Revised	
i	Simplifying $a \cos x + b \sin x$						

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f	Proving trigonometric identities	Covered	R	A	G	Revised	
i	Proving trigonometric identities						
g	Solving problems in context	Covered	R	A	G	Revised	
i	Modelling with trigonometric functions						
7: Parametric Equations							
a	Definition and converting between parametric and Cartesian forms	Covered	R	A	G	Revised	
i	Parametric equations						
ii	Using trigonometric identities						
b	Curve sketching and modelling	Covered	R	A	G	Revised	
i	Curve Sketching						
ii	Points of intersection						
iii	Modelling with parametric equations						
8: Differentiation							
a	Differentiating sine and cosine from first principles	Covered	R	A	G	Revised	
i	Differentiating $\sin x$ and $\cos x$						
b	Differentiating exponentials and logarithms	Covered	R	A	G	Revised	
ii	Differentiating exponentials and logarithms						
c	Differentiating products, quotients, implicit and parametric functions	Covered	R	A	G	Revised	
i	The chain rule						
ii	The product rule						
iii	The quotient rule						
iv	Differentiating trigonometric functions						
v	Parametric differentiation						

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	vi	Implicit differentiation						
d		Second derivatives	Covered	R	A	G	Revised	
	i	Using second derivatives						
e		Rates of change problems	Covered	R	A	G	Revised	
	i	Rates of change						
9: Numerical Methods								
a		Location of roots	Covered	R	A	G	Revised	
	i	Locating roots						
b		Solving by iterative methods	Covered	R	A	G	Revised	
	i	Iteration						
c		Newton-Raphson method	Covered	R	A	G	Revised	
	i	Newton-Raphson method						
d		Problem Solving	Covered	R	A	G	Revised	
	i	Applications to modelling						
10: Integration (Part 1)								
a		Integrating x^n, exponentials, trigonometric and parametric functions	Covered	R	A	G	Revised	
	i	Integrating standard functions						
	ii	Integrating $f(ax + b)$						
b		Using the reverse of differentiation and trig identities to manipulate integrals	Covered	R	A	G	Revised	
	i	Using trigonometric identities						
	ii	Reverse chain rule						
11: Integration (Part 2)								
a		Integration by substitution	Covered	R	A	G	Revised	

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	i	Integration by substitution						
b		Integration by parts	Covered	R	A	G	Revised	
	i	Integration by parts						
c		Use of partial fractions	Covered	R	A	G	Revised	
	i	Partial fractions						
d		Areas under graphs	Covered	R	A	G	Revised	
	i	Finding areas						
e		The trapezium rule	Covered	R	A	G	Revised	
	i	The trapezium rule						
f		Differential equations	Covered	R	A	G	Revised	
	i	Solving differential equations						
	ii	Modelling with differential equations						
12: Vectors (3D)								
a		Use of vectors in 3D; knowledge of column vectors and i, j and k unit vectors	Covered	R	A	G	Revised	
	i	3D Coordinates						
	ii	Vectors in 3D						
	iii	Solving geometric problems						
	iv	Applications to mechanics						

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A2 Maths - Applied PLC											
1: Statistics											
a	Regression, correlation and hypothesis testing					Covered	R	A	G	Revised	
	i	Exponential models									
	ii	Measuring correlation									
	iii	Hypothesis testing for zero correlation									
b	Conditional Probability					Covered	R	A	G	Revised	
	i	Set notation									
	ii	Conditional probability									
	iii	Conditional probabilities in Venn diagrams									
	iv	Probability formulae									
	v	Tree diagrams									
c	The normal distribution					Covered	R	A	G	Revised	
	i	The normal distribution									
	ii	Finding probabilities for normal distributions									
	iii	The inverse normal distribution function									
	iv	The standard normal distribution									
	v	Finding μ and σ									
	vi	Approximating a binomial distribution									
	vii	Hypothesis testing with the normal distribution									

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2: Mechanics							
a	Moments					Covered	R A G Revised
	i	Moments					
	ii	Resultant moments					
	iii	Equilibrium					
	iv	Centre of mass					
	v	Tilting					
b	Forces and friction					Covered	R A G Revised
	i	Resolving forces					
	ii	Inclined planes					
	iii	Friction					
c	Projectiles					Covered	R A G Revised
	i	Horizontal projection					
	ii	Horizontal and vertical components					
	iii	Projection at any angle					
	iv	Projectile motion formulae					
d	Applications of forces					Covered	R A G Revised
	i	Static particles					
	ii	Modelling with statics					
	iii	Friction and statics particles					
	iv	Static rigid bodies					
	v	Dynamics and inclined planes					
	vi	Connected particles					

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e	Further kinemtaics		Covered	R	A	G	Revised	
	i	Vectors in kinematics						
	ii	Vector methods with projectiles						
	iii	Variable acceleration in one dimension						
	iv	Differentiating vectors						
	v	Integrating vectors						