Pure Maths Year 2 Revision Checklist

Торіс	Unit	Sub-topic	\odot	\odot	Revised
1. Algebraic methods	1.1	Proof by contradiction			
	1.2	Algebraic fractions			
	1.3	Partial fractions			
	1.4	Repeated factors			
	1.5	Algebraic division			
	2.1	The modulus function			
 Functions and graphs 	2.2	Functions and mappings			
	2.3	Composite functions			
	2.4	Inverse functions			
	2.5	y = f(x) and $y = f(x)$			
	2.6	Combining transformations			
	2.7	Solving modulus problems			
ies	3.1	Arithmetic sequences			
ser	3.2	Arithmetic series			
s pu	3.3	Geometric sequences			
s a	3.4	Geometric series			
nce	3.5	Sum to infinity			
ant	3.6	Sigma notation			
Sec	3.7	Recurrence relations			
Έ	3.8	Modelling with series			
4. Binomial expansion	4.1	Expanding $(1 + x)^n$			
	4.2	Expanding $(a + bx)^n$			
	4.3	Using partial fractions			
6	5.1	Radian measure			
ian	5.2	Arc length			
5. Rad	5.3	Areas of sectors and segments			
	5.4	Solving trigonometric equations			
	5.5	Small angle approximations			
6. nometric ıctions	6.1	Secant, cosecant and cotangent			
	6.2	Graphs of sec x , cosec x and cot x			
	6.3	Using sec x, cosec x and cot x			
igo fur	6.4	Trigonometric identities			
L I	6.5	Inverse trigonometric functions			
7. Trigonometry and modelling	7.1	Addition formulae			
	7.2	Using the angle addition formulae			
	7.3	Double-angle formulae			
	7.4	Solving trigonometric equations			
	7.5	Simplifying $a \cos x \pm b \sin x$			
	7.6	Proving trigonometric identities			
	7.7	Modelling with trigonometric functions			
8. Parametric equations	8.1	Parametric equations			
	8.2	Using trigonometric identities			
	8.3	Curve sketching			
	8.4	Points of intersection			
	8.5	Modelling with parametric equations			

Pure Maths Year 2 Revision Checklist

Торіс	Unit	Sub-topic		\odot	Revised
9. Differentiation	9.1	Differentiating sin x and cos x			
	9.2	Differentiating exponentials and logarithms			
	9.3	The chain rule			
	9.4	The product rule			
	9.5	The quotient rule			
	9.6	Differentiating trigonometric functions			
	9.7	Parametric differentiation			
	9.8	Implicit differentiation			
	9.9	Using second derivatives			
	9.10	Rates of change			
s al	10.1	Locating roots			
Э. eric 1od	10.2	Iteration			
10 Nume meth	10.3	The Newton-Raphson method			
	10.4	Applications to modelling			
11. Integration	11.1.	Integrating standard functions			
	11.2	Integrating $f(ax + b)$			
	11.3	Using trigonometric identities			
	11.4	Reverse chain rule			
	11.5	Integration by substitution			
	11.6	Integration by parts			
	11.7	Partial fractions			
	11.8	Finding areas			
	11.9	The trapezium rule			
	11.10	Solving differential equations			
	11.11	Modelling with differential equations			
12. Vectors	12.1	3D coordinates			
	12.2	Vectors in 3D			
	12.3	Solving geometric problems			
	12.4	Application to mechanics			