



Summer 2022 **GCSE Maths Checklist** (Edexcel)

Higher Tier

Please note, other topics may appear as part of a larger question. Topics in bold are also on the foundation list.

Number							
T -u-1-		Pape	r	Details	Revised?		
Topic	1	2	3	Details	Keviseu:		
Approximation and			✓	Bounds			
estimation		✓		Error intervals			
Arithmetic			✓	Negative numbers			
	✓			Fraction arithmetic			
Fractions	✓			Fractions of amounts			
	✓			Recurring decimals to fractions			
Powers and roots	✓			Simplifying surds			
			✓	Laws of indices			
Properties	✓			Negative and fractional indices			
	✓			Product of prime factors			
Standard form	✓			Calculating			
	✓			Converting			
Other			✓	Product rule for counting			
		✓		Using a calculator			

Algebra							
Topic	Paper			Dotaile	Dovisod?		
	1	2	3	Details	Revised?		
Equations and inequalities		✓		Equations of parallel lines			
	✓	✓		Forming an equation			
		✓		Linear equations			
	✓			Linear inequalities			

Algebra					
Topic	Paper		ſ	Details	Revised?
Торіс	1	2	3	Details	Reviseu:
	✓			Quadratic equations	
		✓		Quadratic inequalities	
Equations and			✓	Setting up and solving equations	
inequalities			√	Simultaneous equations – linear/ quadratic	
	✓			The equation of a tangent to a circle	
Functions		✓		Inverse and composite functions	
		✓		Coordinates	
	✓			Gradient of a curve	
			1	Gradient of a straight-line graph	
Graphs	✓			Gradients of parallel and perpendicular lines	
		√		Graphs of trigonometric functions	
	✓			Quadratic graphs	
	✓			Speed-time graphs	
		✓		Transformations of functions	
	✓		✓	Algebraic fractions	
			✓	Changing the subject of a formula	
			✓	Difference of two squares	
Manipulation	✓	√	√	Expanding brackets	
		✓		Factorising	
			✓	Forming an expression	
		✓		Laws of indices	
	✓	✓	✓	Simplifying	
			✓	Substituting values	



Ratio, proportion and rate of change							
Tanis	Paper		1	D	Dovined2		
Topic	1	2	3	Details	Revised?		
			√	Average speed			
Compound measures	✓			Density			
		✓		Pressure			
Conversions		✓		Area			
Conversions			√	Time			
Growth and decay			√	General iterative processes			
		✓	√	Depreciation			
Dercentages			✓	Percentage decrease			
Percentages	✓			Percentage of an amount			
			✓	Reverse percentages			
		✓		Currency conversions			
Drapartian		✓	√	Direct proportion			
Proportion	✓			Equations of proportion			
		✓		Inverse proportion			
Ratio			✓	Ratios in the form 1: <i>n</i>			
	✓			Ratios to fractions			
	✓		✓	Sharing in a ratio			
	✓	✓		Using ratio			
	✓		✓	Writing as a ratio			

Geometry and Measure							
Topic	Paper			Dotaile	Revised?		
	1	2	3	Details	Keviseu:		
Angles	✓			Angles in a polygon			
		✓	✓	Circle theorems			
Length, area and volume		✓		Area of a rectangle			
	✓			Area of a sector			

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Geometry and Measure							
T = 1.5		Pape	r	Details Rev	Revised?		
Topic	1	2	3	Details			
			✓	Area of a trapezium			
	✓			Area of a triangle			
Length, area and			✓	Similar triangles			
volume	✓			Surface area of a cuboid			
		1		Volume of composite solid			
	✓			Volume of a cube			
	✓			Exact trigonometric values			
	✓		✓	Pythagoras' Theorem			
Pythagoras' theorem and trigonometry		1		Sine and Cosine Rules			
and ingonometry			✓	Trigonometry			
			✓	Trigonometry in 3 dimensions			
Shape		1		Transformations			
Vectors			✓	Column vectors			
	✓			Vector geometry			

Probability and Statistics							
T		Pape	r	Details	Revised?		
Topic	1	2	3		Reviseu:		
			✓	Dependent combined events			
Probability	✓			Independent combined events			
	✓			Probability			
		✓		Probability from a Venn diagram			
		✓		Venn diagrams			
Statistical diagrams		✓		Box plots			
	✓			Cumulative frequency graphs			
			✓	Frequency polygons			
			✓	Histograms			



Probability and Statistics						
Topic	Paper			Details	Revised?	
	1	2	3	Details	Keviseu:	
Statistical Measures	✓			Interquartile range		
		✓		Lower and upper quartiles		
	✓			Mean		
Population		✓		Capture-recapture method		
		✓		Comparison of distributions		