

KS4 MATHEMATICS Edexcel

HIGHER 3: CALCULATOR

PERSONAL LEARNING CHECKLISTS

2022

Mathematics – Higher 3: Calculator

RAG Rate each section in the first column

Red = Not at all confident - needs major revision focus, Amber = requires more revision until confident. Green = Confident.

Use remaining columns to colour code when you have revised and tested your knowledge and understanding over several weeks.

Key Idea	Key Knowledge to understand	Hegarty Maths Clip Number	RAG						
Number									
Arithmetic	Negative number	38 - 44							
Properties	Laws of indices	102 - 110							
Approximation and estimation	Bounds	137, 138, 139							
Other	Product rule for counting	671, 672, 673							
Algebra									
Manipulation	Simplification	156 – 159, 173, 174, 175							
	Expansion of bracket	160, 161							
	Substitute values	278, 279, 780 – 789							
	Difference of two squares	165, 224, 225							
	Expansion of brackets	160 - 166							
	Change subject of a formula	280 - 287							
	Forming an expression	151, 152, 153							
	Algebraic fractions	159, 170, 172, 229							
Equations and inequalities	Set up and solve equation	188							

	Simultaneous equations linear/quadratic Gradient of a straight	190 – 195, 218, 219, 246, 259 201 – 204,						
Graphs	line graph	207, 210						
Ratio, proportion, and rates of change								
Conversions	Time	709, 710, 711						
Percentages	Percentage decrease	90, 91, 92, 97						
	Depreciation	95, 808 – 811						
	Reverse percentage	96						
	Write as a ratio	328, 329						
Ratio	1 : <i>n</i> form	331						
	Share in a ratio	332 - 335						
Proportion	Direct proportion	339, 340, 341, 343, 344, 345, 348, 739 – 742						
Compound Measures	Average speed	716 – 724, 876, 877						
Growth and decay	General iterative	322						
Geometry and measures								
Angles	Circle theorems	593 – 606, 816 – 820						
Length, area and volume	Area of a trapezium	559						
	Similar triangles	611, 612, 613						
Pythagoras's Theorem and Trigonometry	Pythagoras's Theorem	497 – 507						
	Trigonometry	508 - 515						
	Trigonometry in 3-D	854 - 863						
Vectors	Column vectors	623 - 627						
Probability								
Probability	Dependent combined events	364 - 367						
Statistics								

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	Diagrams	Frequency polygon	441			
		Histogram	442 - 449			