

KS4 MATHEMATICS Edexcel

FOUNDATION 3: CALCULATOR

PERSONAL LEARNING CHECKLISTS

2022

Mathematics – Foundation 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	Ι	1	<u> </u>		1	<u> </u>	
Arithmetic	Four operations	$18 - 24, 47 \\ -51, \\ 143 - 146$						
	Negative number	38 – 44						
Fractions	Fraction of an amount	77						
	One amount as a fraction of another	62						
	Equivalent fractions	59, 61						
Properties	Factors	27						
	Lowest Common Multiple	34, 35, 36						
Powers and roots	Square root	101						
Approximation and Estimation	Rounding	17, 56, 130, 133						
Other	Calculator use	129						
Algebra								
	Simplification	156 – 159, 173, 174						
Manipulation	Expansion of bracket	160, 161						
	Factorisation	$\frac{168-171}{223,\ 224}$						

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		Substitute values	155, 278, 780 – 783								
		Change subject of a formula	280 - 287								
		Forming an expression	151, 152, 153								
	Equations and inequalities	Linear equation	177 – 186, 188, 189								
		Form an equation	176								
	Sequences	Linear sequence	196, 197, 198								
		Ratio, proportion, and	Ratio, proportion, and rates of change								
	Conversion	Time	709, 710, 711								
		Compound units	724, 731, 737, 738								
		Scale drawings	864 - 871								
	Percentages	Percentage to fraction	82								
		One quantity as a percentage of another	62, 76								
		Percentage increase	90, 91, 92, 94, 97, 98								
		Reverse percentage	96								
	Patio	Write as a ratio	328, 329								
	Ratio	1 : <i>n</i> form	331								
	Proportion	Direct proportion	339, 340, 341, 343, 344, 345, 348, 739 – 742								
	Compound Measures	Average speed	722, 876, 877								
		Geometry and m	easures	<u> </u>							
		Triangle properties	823								
	Shape	Quadrilaterals	824, 825, 826								
		Triangular prism	829, 830								
	Angles	Angle properties of parallel lines	481, 482, 483, 490, 491								

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	Angles in a triangle	484 - 491						
	Vertically opposite angles	480						
	Bearings	492 – 496, 869						
Length, area, and volume	Area of a triangle	557, 558						
	Area of a trapezium	559						
Pythagoras's Theorem and Trigonometry	Pythagoras's Theorem	498, 499, 501, 502						
Probability								
Probability	Probability scale	349, 350						
	Probability	351 - 363						
Statistics								
Diagrams	Frequency polygon	441						
Measures	Median	409, 416, 419, 420						
	Range	410, 414, 419, 420						
Population	Comparison of distributions	432, 433						