

KS4 MATHEMATICS Edexcel

FOUNDATION: NON CALCULATOR

PERSONAL LEARNING CHECKLISTS

2022

Mathematics - Foundation: Non 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	Money	743 – 754							
	Negative number	37 – 44							
Fractions	Order fractions, decimals, percentages	52, 55, 73 – 76, 82, 83, 149							
	Fraction of an amount	77							
	Fraction arithmetic	65 – 70, 80							
Properties	Place value	13, 45							
	Product of prime factors	29, 30, 32, 35							
Standard form	Conversion	122, 123, 124							
	Calculation	125, 126, 127							
Approximation and Estimation	Estimation	131							
	Algebra								
Manipulation	Simplification	156 – 159, 173, 174							
	Substitute values	155, 278, 780 – 783							
Equations and inequalities	Linear inequality	265 – 272							
	Quadratic equation	230, 234							
Graphs	Quadratic graph	251 – 255							

Sequences	Linear sequence	196, 197, 198						
Ratio, p	proportion, and	l rates o	f chai	nge				
Conversion	Length	692, 693, 694, 705, 706						
Percentages	Percentage of an amount	84, 85, 86						
	Percentage increase	88, 91, 92, 94, 97, 98						
Ratio	Write as a ratio	328, 329						
	Share in a ratio	332 – 335						
Proportion	Direct proportion	339, 340, 341, 343, 344, 345, 348, 739 – 742						
Compound Measures	Speed	716 – 724						
	Density	725 – 729, 731						
	Geometry and m	easures						
Shape	Reflection	639, 640, 641						
	Plan and elevation	837 – 844						
Angles	Angles in a polygon	560 – 565						
Length, area, and volume	Volume of a cube	568, 569						
	Volume of a cylinder	572, 573, 574						
Pythagoras's Theorem and Trigonometry	Exact trigonometric values	845						
Probability								
Probability	Probability	349 – 363						
	Frequency tree	368, 369						
	Statistics							
Diagrams	Pictogram	426						
	Bar chart	425						
	Stem and leaf diagram	430 – 433						