



The
Appleton
School

KS4 MATHEMATICS

Edexcel

HIGHER 2: CALCULATOR

PERSONAL LEARNING CHECKLISTS

2022

Mathematics – Higher 2: 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								
Approximation and estimation	Error interval	774 – 777						
Other	Use of a calculator	129						
Algebra								
Manipulation	Simplification	156 – 159						
	Expansion of bracket	160, 161						
	Factorisation	168 – 171, 223 – 228						
	Laws of indices	173, 174, 175						
Equations and inequalities	Linear equation	177 – 189						
	Equations of parallel lines	214						
	Form an equation	176						
	Quadratic inequality	277						
Graphs	Coordinates	199, 200						
	Transformations of functions	307 – 313						
	Graphs of trigonometric functions	303 – 306						
Functions	Inverse and composite functions	293 – 297						
Ratio, proportion, and rates of change								

Conversions	Area	700, 701						
Percentages	Depreciation	95, 808 – 811						
Ratio	Use of ratio	335 – 338						
Proportion	Direct proportion	339, 340, 341, 343, 344, 345, 348, 739 – 742						
	Currency conversion	707, 708						
	Inverse proportion	342, 346, 347, 348						
Compound Measures	Pressure	734 – 737						
Geometry and measures								
Shape	Transformations	637 – 657						
Angles	Circle theorems	593 – 606, 816 – 820						
Length, area and volume	Area of a rectangle	554, 555						
	Volume of composite solid	582						
Pythagoras's Theorem and Trigonometry	Sine and Cosine Rules	521 – 533						
Probability								
Probability	Venn diagram	372 – 380						
	Probability from a Venn diagram	383 – 388, 391						
Statistics								
Diagrams	Box plot	434, 435, 436, 440						
Measures	Lower and upper quartiles	411						
Populations	Compare distributions	432, 433, 436, 439						
	Capture-recapture method	872, 873						