

SUMMER 2022 Maths - Higher

Paper 1 (Non-Calculator)			
	Topic	MathsWatch Clip	CGP page number
Number	Fraction of an amount	72	5-7
	Calculations with fractions	71a, 73, 74	5-7
	Recurring decimals to fractions	177	8
	Product of primes	78	3
	Negative and fractional indices	154, 188	17
	Simplifying surds	207	20
	Standard form conversion	83	13, 14
	Standard form calculation	83	13, 14
Algebra	Simplifying algebra	33, 34, 35, 134, 210	16
	Expanding brackets	93	18
	Algebraic fractions	210	30
	Linear inequalities	138, 139	33
	Forming an equation	137	16
	Quadratic equation	191	27
	Equation of a tangent to a circle	197	57
	Quadratic graph	98, 160	48
	Speed time graph	143	55-56
	Gradient of parallel and perpendicular lines	159	47
	Gradient of a curve	216	57
Ratio, proportion and rates of change	Percentage of an amount	87	64
	Write as a ratio	38, 200	69-61
	Using ratio	39, 200	59-61
	Sharing in a ratio	106, 200	59-61
	Ratio to fractions	200	59-61
	Proportion equations	199	62-63
	Density	142	69
Geometry and measures	Angles in a polygon	123	74
	Angles in a triangle	121, 122	75
	Volume of a cube	115	85-86
	Surface area of a cuboid	114	84
	Area of a sector	149	83
	Pythagoras	150	95
	Exact trig values	173	98
	Vector geometry	219	103
Probability	Probability	59, 204	106
	Independent combined events	60, 204	110
Statistics	Cumulative frequency	186	120
	Mean	130	116-118
	Inter-quartile range	187	124

Paper 2 (Calculator)

	Topic	MathsWatch Clip	CGP page number
Number	Error intervals	155	12
	Using a calculator	77	
Algebra	Simplifying algebra	33, 34, 35, 134, 210	16
	Expanding brackets	93	18
	Factorisation	94	19
	Laws of indices	29, 131	17
	Linear equations	135a	21
	Equations of parallel lines	120	47
	Forming an equation	137	
	Quadratic inequality	212	34
	Coordinates	8	
	Transformation of functions	196	53
	Graphs of trig functions	195	53
	Inverse and composite functions	214, 215	41
Ratio, proportion and rates of change	Area unit conversion		68
	Depreciation	164	67
	Using ratio	39, 200	59-61
	Direct proportion	199	62-63
	Currency conversion		68
	Inverse proportion	199	62-63
	Pressure	142	69
Geometry and measures	Transformations	48, 49, 50, 148, 182	80
	Circle theorems	183	76-77
	Area of a rectangle	53	71
	Volume of composite solid	119	85
	Sine and cosine rules	202	99
Probability	Venn diagrams	127	113
	Probability from a Venn diagram	185	113
Statistics	Box plots	187	119
	Lower and upper quartiles	187	119
	Comparing distributions		124
	Capture recapture	152	114

Paper 3 (Calculator)

	Topic	MathsWatch Clip	CGP page number
Number	Negative number	68	2
	Laws of indices	154, 188	17
	Bounds	132, 206	12
	Product rule	78	107
Algebra	Simplifying algebra	33, 34, 35, 134, 210	16
	Expanding brackets	93	18
	Substitution	95	
	Difference of two squares	158	19
	Expanding brackets	93	18
	Rearranging	136, 190	23
	Forming an expression	137	
	Algebraic fractions	210	30
	Forming and solving equations	137	
	Simultaneous equations linear/quadratic	140, 162, 211	37-38
	Gradient of a straight line graph	159	43-44
Ratio, proportion and rates of change	Converting units of time	112	68
	Percentage decrease	88	64-66
	Depreciation	164	67
	Reverse percentages	110	64-67
	Writing ratio	38	59-61
	Ratio 1:n form		59-61
	Sharing in a ratio	106	59-61
	Direct proportion	199	62
	Average speed	142	69
General iterative processes	180	36	
Geometry and measures	Circle theorems	183	76-77
	Area of a trapezium	56	71
	Similar triangles	144	79
	Pythagoras	150	95
	Trigonometry	168	96-98
	Trigonometry in 3D	218	102
	Column vectors	174	103-104
Probability	Dependent combined events	204	110
Statistics	Frequency polygon	65	123
	Histogram	205	121

