Summer 2022 **GCSE Maths Checklist (Edexcel)**

Foundation Tier

Please note, other topics may appear as part of a larger question. Topics in bold are also on the higher list.

Number					
Topic	**Paper**			**Details**	**Revised?**
	1	**2**	**3**		
Approximation and estimation		✓		**Error intervals**	
	✓			Estimation	
		✓	✓	Rounding	
Arithmetic			✓	Four operations	
	✓	✓		Money	
	✓	✓	✓	**Negative numbers**	
Fractions			✓	Equivalent fractions	
	✓	✓		**Fraction arithmetic**	
	✓		✓	**Fractions of amounts**	
			✓	One amount as a fraction of another	
	✓	✓		Ordering fractions, decimals, percentages	
Powers and roots			✓	Square roots	
Properties			✓	Factors	
			✓	Lowest Common Multiple	
		✓		Multiples	
		✓		Ordering integers	
	✓			Place value	
	✓			**Product of prime factors**	
Standard Form	✓			**Calculating**	
	✓			**Converting**	
Other		✓		Mathematical symbols	
			✓	**Using a calculator**	

Algebra

Topic	Paper 1	Paper 2	Paper 3	Details	Revised?
Equations and inequalities			✓	**Forming an equation**	
			✓	**Linear equations**	
	✓			**Linear inequalities**	
		✓		Linear simultaneous equations	
	✓			**Quadratic equations**	
Functions		✓		Number machines	
Graphs		✓		Coordinates	
	✓			**Quadratic graphs**	
		✓		Straight line graphs	
Manipulation			✓	**Changing the subject of a formula**	
		✓	✓	**Expanding brackets**	
		✓	✓	**Factorising**	
			✓	**Forming an expression**	
		✓		**Laws of indices**	
	✓	✓	✓	**Simplifying**	
	✓		✓	**Substituting values**	
Sequences	✓		✓	Linear sequences	

Ratio, proportion and rate of change

Topic	Paper 1	Paper 2	Paper 3	Details	Revised?
Compound measures			✓	**Average speed**	
	✓			**Density**	
	✓			Speed	
Conversion			✓	Compound units	
	✓			Length	
		✓		Mass, time, area	

Ratio, proportion and rate of change

Topic	Paper 1	Paper 2	Paper 3	Details	Revised?
Conversion		✓	✓	Scale drawings	
			✓	**Time**	
Percentages		✓		Decimals to percentages	
		✓		**Depreciation**	
			✓	One quantity as a percentage of another	
			✓	**Percentage decrease**	
	✓			Percentage increase	
	✓			**Percentage of an amount**	
		✓		Percentage profit	
			✓	Percentages to fractions	
			✓	**Reverse percentages**	
Proportion		✓		**Currency conversions**	
	✓	✓	✓	**Direct proportion**	
Ratio			✓	**Ratios in the form 1:n**	
	✓			**Sharing in a ratio**	
		✓		**Use of ratio**	
	✓	✓	✓	**Writing as a ratio**	

Geometry and Measure

Topic	Paper 1	Paper 2	Paper 3	Details	Revised?
Angles	✓			**Angles in a polygon**	
		✓	✓	Angles in a triangle	
			✓	Angle properties of parallel lines	
			✓	Bearings	
		✓	✓	Vertically opposite angles	

Geometry and Measure

Topic	Paper 1	Paper 2	Paper 3	Details	Revised?
Length, area and volume		✓		**Area of a rectangle**	
			✓	**Area of a trapezium**	
			✓	**Area of a triangle**	
	✓			**Volume of a cube**	
	✓			Volume of a cylinder	
Pythagoras' Theorem and Trigonometry	✓			**Exact trigonometric values**	
			✓	**Pythagoras' Theorem**	
Shape		✓		Circles	
		✓		Parallel and perpendicular lines	
	✓			Plans and elevations	
		✓		Polygons	
			✓	Quadrilaterals	
	✓			Reflection	
		✓		**Transformations**	
			✓	Triangle properties	
			✓	Triangular prisms	

Probability and Statistics

Topic	Paper 1	Paper 2	Paper 3	Details	Revised?
Probability		✓		Combined events	
	✓			Frequency trees	
	✓		✓	**Probability**	
			✓	Probability scales	
		✓		Tree diagrams	
Statistical diagrams	✓			Bar charts	
			✓	**Frequency polygons**	

Topic	Paper			Details	Revised?
	1	**2**	**3**		
				Probability and Statistics	
Statistical diagrams		✓		Frequency tables	5 of 5
		✓		Interpreting graphs	
	✓			Pictograms	
	✓			Stem and leaf diagrams	
		✓		Two-way tables	
Statistical Measures		✓		**Mean**	
		✓	✓	Median	
		✓		Mode	
			✓	Range	
Population			✓	**Comparison of distributions**	