

**Scope and Sequence Document for: IGCSE Mathematics**

Tutor	Lucy Sykes		
Tutor qualifications:	B.Sc. (Hons) Durham PGCE, East Anglia	IGCSE/A level Exam board & Specification: No:	Mathematics A Extended tier CAIE 0580
Resources required:	Cambridge IGCSE Mathematics Core and Extended 4th Edition, (2018), Ric Pimentel and Terry Wall, ISBN: 9781510421684, Hodder		

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	02/09/19	Simplifying fractions, directed numbers, percentage of amounts, standard form (positive indices) , significant figures
	2	09/09/19	Simplifying expressions, solving linear equations
	3	16/09/19	Gradient of a straight line, linear graphs
	4	23/09/19	Names and properties of polygons, constructions and loci
	5	30/09/19	Sets, Venn diagrams
2	6	07/10/19	Standard form (negative indices), four rules of fractions, Ratio and direct proportion
	7	14/10/19	Simplifying fractions, solving simple quadratic equations, using formulae, positive integer indices, inequalities
	8	21/10/19	Half Term
2	9	28/10/19	Graphical solution of simultaneous equations and inequalities
	10	04/11/19	Tangent ratio
	11	11/11/19	Collecting and displaying data, frequency tables, averages
3	12	18/11/19	Compound percentages, multiples, factors and primes, calculator use
	13	25/11/19	Simple factorising, simplifying fractions, equations with fractions, algebraic solution of simultaneous equations
	14	02/12/19	Travel graphs Exam practice papers 1 and 2
	15	09/12/19	Sine and Cosine ratios
	16	16/12/19	Christmas Holiday
	17	23/12/19	Christmas Holiday
	18	30/12/19	Christmas Holiday

3	19	06/01/20	Using frequency tables for calculations
4	20	13/01/20	Inverse percentages, rounding, upper and lower bounds, estimating and estimating with standard form
	21	20/01/20	Changing the subject of a formula, using formulae
	22	27/01/20	Quadratic graphs, solving quadratic equations graphically Exam practice paper 3
	23	03/02/20	Circles, similar triangles, Pythagoras' theorem
	24	10/02/20	Half Term
4	25	17/02/20	Experimental and theoretical probability
5	26	24/02/20	Proportion, positive integer powers, simple recurring decimals
	27	02/03/20	Multiplying brackets, factorising quadratic expressions, solving quadratic equations by factorisation, solving problems using quadratic equations
	28	09/03/20	Continuing sequences, using formula and difference method
	29	16/03/20	Basic and combined transformations, enlargements Revision – Exam practice papers module 4
	30	23/03/20	Distributions, quartiles, measures of spread, cumulative Frequency
	31	30/03/20	Exam practice paper module 5
	32	06/04/20	Easter Holiday
	33	13/04/20	Easter Holiday
	34	20/04/20	Easter Holiday
	35	27/04/20	Final revision week for Year 10 exam
	36	04/05/20	Year 10 exam paper 1
	37	11/05/20	Year 10 exam paper 2
6	38	18/05/20	Inverse proportion, recurring decimals
	39	25/05/20	Half Term
6	40	01/06/20	Direct and inverse proportion
	41	08/06/20	Cubic graphs, reciprocal graphs
	42	15/06/20	Congruence, circles, intersecting chords and tangents
	43	22/06/20	Problems involving sets, identifying sets, set-builder notation
NSW Summer holiday period – 1 July – 31 August 2020			
7	1	07/09/20	Negative and fractional indices
	2	14/09/20	Quadratic equations, solving problems involving quadratic equations and matrices
	3	21/09/20	Using graphs to solve equations and linear programming
	4	28/09/20	Converting measures, circles, surface area and volume of solids, area and volume of similar shapes

7	5	05/10/20	Second week for above topics
	6	12/10/20	Compound probability
	7	19/10/20	Revision – exam practice papers unit 1 book 2
	8	26/10/20	Half Term
8	9	02/11/20	Financial arithmetic
	10	09/11/20	Solving linear and non-linear simultaneous equations, functions
	11	16/11/20	Tangents to a curve
	12	23/11/20	Vectors and vector geometry, stretch and shear transformations
	13	30/11/20	Histograms
9	14	07/12/20	Algebraic Fractions
	15	14/12/20	Matrices and Transformations
	16	21/12/20	Christmas Holiday
	17	28/12/20	Christmas Holiday
	18	04/01/21	Christmas Holiday
9	19	11/01/21	Further Trigonometry: Sine and Cosine Rule
	20	18/01/21	Further Trigonometry: Area of a Triangle and 3D Problems
	21	25/01/21	Catch-up and Personal Revision
	22	01/02/21	Year 11 Internal Exam Paper 1
	23	08/02/21	Year 11 Internal Exam Paper 2
	24	15/02/21	Half Term
10	25	22/02/21	Revision of number topics
	26	01/03/21	Revision of algebra topics
	27	08/03/21	Revision of graphs and sequences topics
	28	15/03/21	Revision of shape and space topics
	29	22/03/21	Revision of Handling data topics
		29/03/21	Easter Holiday
		05/04/21	Easter Holiday
		12/04/21	Easter Holiday
		19/04/21	
		26/04/21	
		03/05/21	
		10/05/21	
		17/05/21	

		24/05/21	
		31/05/21	Half Term
		07/06/21	
		14/06/21	
		21/06/21	
		28/06/21	