

Scope and Sequence Document for: IGCSE Mathematics (Official)

Tutor	Tommy Farrell		
Tutor qualifications:	B.Sc. (Hons), Southampton PGCE, Southampton	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: 978-1510421684, Hodder		

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	03/09/18	Simplifying fractions, directed numbers, percentage of amounts, standard form (positive indices) , significant figures
	2	10/09/18	Simplifying expressions, solving linear equations
	3	17/09/18	Gradient of a straight line, linear graphs
	4	24/09/18	Names and properties of polygons, constructions and loci
	5	01/10/18	Sets, Venn diagrams
2	6	08/10/18	Standard form (negative indices), four rules of fractions, Ratio and direct proportion
	7	15/10/18	Simplifying fractions, solving simple quadratic equations, using formulae, positive integer indices, inequalities
	8	22/10/18	Half Term
2	9	29/10/18	Graphical solution of simultaneous equations and inequalities
	10	05/11/18	Tangent ratio
	11	12/11/18	Collecting and displaying data, frequency tables, averages
3	12	29/11/18	Compound percentages, multiples, factors and primes, calculator use
	13	26/11/18	Simple factorising, simplifying fractions, equations with fractions, algebraic solution of simultaneous equations
	14	03/12/18	Travel graphs Exam practice papers 1 and 2
	15	10/12/18	Sine and Cosine ratios
	16	17/12/18	Christmas Holiday
	17	24/12/18	Christmas Holiday
	18	31/12/18	Christmas Holiday

3	19	07/01/19	Using frequency tables for calculations
4	20	14/01/19	Inverse percentages, rounding, upper and lower bounds, estimating and estimating with standard form
	21	21/01/19	Changing the subject of a formula, using formulae
	22	28/01/19	Quadratic graphs, solving quadratic equations graphically Exam practice paper 3
	23	04/02/19	Circles, similar triangles, Pythagoras' theorem
	24	11/02/19	Half Term
4	25	18/02/19	Experimental and theoretical probability
5	26	25/02/19	Proportion, positive integer powers, simple recurring decimals
	27	04/03/19	Multiplying brackets, factorising quadratic expressions, solving quadratic equations by factorisation, solving problems using quadratic equations
	28	11/03/19	Continuing sequences, using formula and difference method
	29	18/03/19	Basic and combined transformations, enlargements Revision – Exam practice papers module 4
	30	25/03/19	Distributions, quartiles, measures of spread, cumulative Frequency
	31	01/04/19	Exam practice paper module 5
	32	08/04/19	Easter Holiday
	33	15/04/19	Easter Holiday
	34	22/04/19	Easter Holiday
	35	29/04/19	Final revision week for Year 10 exam
	36	06/05/19	Year 10 exam paper 1
	37	13/05/19	Year 10 exam paper 2
6	38	20/05/19	Inverse proportion, recurring decimals
	39	27/05/19	Half Term
6	40	03/06/19	Direct and inverse proportion
	41	10/06/19	Cubic graphs, reciprocal graphs
	42	17/06/19	Congruence, circles, intersecting chords and tangents
	43	24/06/19	Problems involving sets, identifying sets, set-builder notation
NSW Summer holiday period – 1 July – 31 August 2019			
7	1	02/09/19	Negative and fractional indices
	2	09/09/19	Quadratic equations, solving problems involving quadratic equations and matrices
	3	16/09/19	Using graphs to solve equations and linear programming
	4	23/09/19	Converting measures, circles, surface area and volume of solids, area and volume of similar shapes
	5	30/09/19	Second week for above topics

7	6	07/10/19	Compound probability
	7	14/10/19	Revision – exam practice papers unit 1 book 2
	8	21/10/19	Half Term
8	9	28/10/19	Financial arithmetic
	10	04/11/19	Solving linear and non-linear simultaneous equations, functions
	11	11/11/19	Tangents to a curve
	12	18/11/19	Vectors and vector geometry, stretch and shear transformations
	13	25/11/19	Histograms
9	14	02/12/19	Algebraic Fractions
	15	09/12/19	Matrices and Transformations
	16	16/12/19	Christmas Holiday
	17	23/12/19	Christmas Holiday
	18	30/12/19	Christmas Holiday
9	19	06/01/20	Further Trigonometry: Sine and Cosine Rule
	20	13/01/20	Further Trigonometry: Area of a Triangle and 3D Problems
	21	20/01/20	Catch-up and Personal Revision
	22	27/01/20	Year 11 Internal Exam Paper 1
	23	03/02/20	Year 11 Internal Exam Paper 2
	24	10/02/20	Half Term
10	25	17/02/20	Revision of number topics
	26	24/02/20	Revision of algebra topics
	27	02/03/20	Revision of graphs and sequences topics
	28	09/03/20	Revision of shape and space topics
	29	16/03/20	Revision of Handling data topics
	30	23/03/20	Past Papers
	31	30/03/20	
		06/04/20	Easter Holiday
		13/04/20	Easter Holiday
		20/04/20	Easter Holiday
		27/04/20	
		04/05/20	
		11/05/20	
		18/05/20	

		25/05/20	Half Term
		01/06/20	
		08/06/20	
		15/06/20	
		22/06/20	