

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:	CiE 0580 Mathematics A Extended tier
Resources required:	Cambridge IGCSE Mathematics Core and Extended, (2013), Ric Pimentel and Terry Wall, ISBN – 978-1444191707, Hodder.		

Module No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	04/09/17	Simplifying fractions, directed numbers, percentage of amounts, standard form (positive indices) , significant figures
	2	11/09/17	Simplifying expressions, solving linear equations
	3	18/09/17	Gradient of a straight line, linear graphs
	4	25/09/17	Names and properties of polygons, constructions and loci
	5	02/10/17	Sets, Venn diagrams
2	6	09/10/17	Standard form (negative indices), four rules of fractions, Ratio and direct proportion
	7	16/10/17	Simplifying fractions, solving simple quadratic equations, using formulae, positive integer indices, inequalities
	8	23/10/17	Half Term
2	9	30/10/17	Graphical solution of simultaneous equations and inequalities
	10	06/11/17	Tangent ratio
	11	13/11/17	Collecting and displaying data, frequency tables, averages
3	12	20/11/17	Compound percentages, multiples, factors and primes, calculator use
	13	27/11/17	Simple factorising, simplifying fractions, equations with fractions, algebraic solution of simultaneous equations
	14	04/12/17	Travel graphs Exam practice papers 1 and 2
	15	11/12/17	Sine and Cosine ratios
	16	18/12/17	Christmas Holiday
	17	25/12/17	Christmas Holiday
	18	01/01/18	Christmas Holiday
3	19	08/01/18	Using frequency tables for calculations
4	20	15/01/18	Inverse percentages, rounding, upper and lower bounds, estimating and estimating with standard form
	21	22/01/18	Changing the subject of a formula, using formulae
	22	29/01/18	Quadratic graphs, solving quadratic equations graphically Exam practice paper 3
	23	05/02/18	Circles, similar triangles, Pythagoras' theorem

	24	12/02/18	Half Term
4	25	19/02/18	Experimental and theoretical probability
5	26	26/02/18	Proportion, positive integer powers, simple recurring decimals
	27	05/03/18	Multiplying brackets, factorising quadratic expressions, solving quadratic equations by factorisation, solving problems using quadratic equations
	28	12/03/18	Continuing sequences, using formula and difference method
	29	19/03/18	Basic and combined transformations, enlargements Revision – Exam practice papers module 4
	30	26/03/18	Easter Holiday
	31	02/04/18	Easter Holiday
	32	09/04/18	Easter Holiday
5	33	16/04/18	Distributions, quartiles, measures of spread, cumulative Frequency
	34	23/04/18	Exam practice paper module 5
	35	30/04/18	Final revision week for Year 10 exam
	36	07/05/18	Year 10 exam paper 1
	37	14/05/18	Year 10 exam paper 2
6	38	21/05/18	Inverse proportion, recurring decimals
	39	28/05/18	Half Term
6	40	04/06/18	Direct and inverse proportion
	41	11/06/18	Cubic graphs, reciprocal graphs
	42	18/06/18	Congruence, circles, intersecting chords and tangents
	43	25/06/18	Problems involving sets, identifying sets, set-builder notation
NSW Summer holiday period – 2 July – 31 August 2018			
7	1	03/09/18	Negative and fractional indices
	2	10/09/18	Quadratic equations, solving problems involving quadratic equations and matrices
	3	17/09/18	Using graphs to solve equations and linear programming
	4	24/09/18	Converting measures, circles, surface area and volume of solids, area and volume of similar shapes
	5	01/10/18	Second week for above topics
	6	08/10/18	Compound probability
	7	15/10/18	Revision – exam practice papers unit 1 book 2
	8	22/10/18	Half Term
8	9	29/10/18	Financial arithmetic
	10	05/11/18	Solving linear and non-linear simultaneous equations, functions

8	11	12/11/18	Tangents to a curve
	12	19/11/18	Vectors and vector geometry, stretch and shear transformations
	13	26/11/18	Histograms
9	14	03/12/18	Algebraic Fractions
	15	10/12/18	Matrices and Transformations
	16	17/12/18	Christmas Holiday
	17	24/12/18	Christmas Holiday
	18	31/12/18	Christmas Holiday
9	19	07/01/19	Further Trigonometry: Sine and Cosine Rule
	20	14/01/19	Further Trigonometry: Area of a Triangle and 3D Problems
	21	21/01/19	Catch-up and Personal Revision
	22	28/01/19	Year 11 Internal Exam Paper 1
	23	04/02/19	Year 11 Internal Exam Paper 2
	24	11/02/19	Half Term
10	25	18/02/19	Revision of number topics
	26	25/02/19	Revision of algebra topics
	27	04/03/19	Revision of graphs and sequences topics
	28	11/03/19	Revision of shape and space topics
	29	18/03/19	Revision of Handling data topics
	30	25/03/19	Past Papers
	31	01/04/19	
		08/04/19	Easter Holiday
		15/04/19	Easter Holiday
		22/04/19	Easter Holiday
		29/04/19	
		06/05/19	
		13/05/19	
		20/05/19	
		27/05/19	Half Term
		03/06/19	
		10/06/19	
		17/06/19	
		24/06/19	

