YEAR 11 MATHEMATICS B WORK PLAN: Semester 1, 2017 - Mrs Every, Mr Miller-Metzner

UNIT	TERM 1 TOPICS	ASSESSMENT	DUE DATE
1	**Algebra and Index Law Review (3 weeks)** Text Ref: 7A-7C, 7E, 7F pg 258-294 7A Index laws; 7B Negative and rational Powers; 7C Indicial equations. 7D Logarithms 7F Solving Logarithm Equations	Exam 1.1a Unit 1 45min	**Week 4** Tues 14ʰ Feb Lesson 1 (HEV) Lesson 3(SMI)
2	**Introduction to Functions (4.5 weeks)** Text Ref: 1A-1H pg 2-48, Handouts Solving linear equations & calculator work; Gradient straight line; Equation $y = mx+c$ and calculator work; Equation of straight line; Applications Relations and Graphing and calculator work; review of quadratic functions and practical applications of quadratic functions	Exam 1.1b Unit 2 90min	**Week 9** Wed 22nd March Lesson 5&6
3	**Relations and Functions (2.5 weeks, Term1 and Term2)** Text Ref: 2A-2G pg 50-94 Set Notation, Domain / Range; Types of relations; Notations and special types; Modelling Pt II		

UNIT	TERM 2 TOPICS	ASSESSMENT	DUE DATE
4	**Introduction to functions 2 (3 weeks)** Text Ref: 3A-3F pg 96-148 General shapes of functions; including – polynomials up to degree 4, reciprocal functions, square functions, absolute value functions, addition of ordinates Relationships between the graph of $f(x)$ and the graphs of $f(x) + a, f(x+a), af(x), f(ax)$ for both positive and negative values of the constant a Modelling of data	Assignment 1.2	Handout: **Week 1**, Fri 21st April Monitoring 1: **Week 3** Fri 5th May Monitoring 2: **Week 5** Thurs 18th May Due Date: **Week 6** Mon 22nd *May*
5	**Periodic Functions and Applications (4 weeks)** Text Ref: 5A-5F pg 194-236, Ex: 6A-6C Period and Amplitude of a Periodic Function; Radian Measure; Exact Values; Symmetry; Trigonometric Graphs; Applications, Solving Equations (including radians) pg 238-247	Exam 1.2a Units 3&4 90min Exam 1.2b Unit 5 90min	 Exam Block