



YEAR 12 MATHEMATICS C WORK PLAN: Semester 1, 2017 – Ms Morrison

UNIT	TERM 1 TOPICS	ASSESSMENT	DUE DATE
1	Vectors and applications 3: Chapter 3 pg(91-121) (3 weeks) <ul style="list-style-type: none"> 3A Review of vectors, 3B Vector product, 3C Scalar triple product 3D Applications of the vector product 	Exam 3.1a Units 1 90 min	Week 8 Wed 14 th March Lessons 5 and 6
2	Matrices and applications 3 (2 weeks) Chapter 2 (pg43-91) <ul style="list-style-type: none"> 2A review of matrix operations, 2B Markov Chains, 2C Leontief matrices and Leslie matrices, 2D Cryptology 		
3	Calculus (3 weeks) Chapter 4 set 4B-4I (pg 135-187) <ul style="list-style-type: none"> Integrals of various forms (summary sheet pg 186), integration by substitution, integration by linear substitution, integration using partial fractions, integration by parts and the definite integral 	Exam 3.1b Unit 2 and 3 90 min	Week 10 Tuesday 28 th March Lessons 5 and 6
UNIT	TERM 2 TOPICS	ASSESSMENT	DUE DATE
4	Structures and Patterns 3 Chapter 6 (pg227-260) (2 1/2 weeks) <ul style="list-style-type: none"> 6A Review of sequences and progressions; 6B Use of the method of finite differences, 6C Proof by induction 	Assignment 3.2	Handout: Week 2 , Fri 28 th April Monitoring 1: Week 4 , Mon 8 th May Monitoring 2: Week 6 , Mon 22 nd May Due Date: Week 7 , Fri 2 nd June
5	Calculus Chapter 4 (2 weeks) Chapter 4 set 4A, Chapter 5 set 5B <ul style="list-style-type: none"> 4A Review of integration, 5B solution of simple, linear, first order differential equations with constant coefficients 		
6	Dynamics 1 (3 weeks) Chapter 11 (pg 501-528) <ul style="list-style-type: none"> 11A using anti-differentiation, 11B Motion under constant acceleration, 11C Applying differential equations to rectilinear motion derivatives and integrals of vectors 	Exam 3.3a Unit 4 and 5 120min	Week 5 Thursday 18 th May Lessons 1 and 2
		Exam 3.3b Unit 6 90 min	Exam Block