



YEAR 11 MATHEMATICS C WORK PLAN: Semester 2, 2017 – Mrs Every

UNIT	TERM 3 TOPIC	ASSESSMENT	DUE DATE
7	Real and Complex Number Systems 2 (3 weeks) Text Ref: 2A-2F Definition and operations of complex numbers including standard and mod-arg form Algebraic representation of complex numbers in Cartesian, trigonometric and polar form Geometric representation of complex numbers – Argand Diagrams	In Class Test 2.1a Topic 7, 8	Week 5 Tues 8th August Lessons 3&4 (90 min)
8	Structures and Patterns 2 (1 week) Text Ref: additional material Recognition of patterns in well known structures including Pascal's Triangle and Fibonacci Method of finite differences and applications of patterns		
9	Vectors and Applications 2 (3 weeks) Text Ref: Review Chap 7, 8A-8F Review of vectors in two and three dimensions and their algebraic and geometric representations Review of operations on vectors and unit vectors Applications of vectors; forces and relative velocity	Assignment 2.2 Topic 9	Week 5: Handed out: Fri 11 th Aug Week 7: Monitoring Week 2 Term 4 Due Date: Mon 9 th October
10	Matrices and Applications 2 (1 weeks) Text Ref: 5A-5F Inverse matrices and systems of linear equation Gaussian elimination Determination of a matrix Inverse of a 3x3 matrix Cramer's rule	In Class Test 2.1b Topic 9	Week 8 Fri 1st Sept Lesson 3&4 (90 min)
UNIT	TERM 4 TOPIC	ASSESSMENT	DUE DATE
10 ctd	Matrices and Applications 2 (cont 2 weeks)	Exam 2.3a Topic 10	Week 3 Tues 17th Oct Lesson 3&4 (90 min)
11	Number Theory (3 weeks) Text Ref: Handout Primes, composites and the Fundamental Theorem of Arithmetic Divisors, Euclidean Algorithm, lowest common multiple and greatest common divisors Modular Arithmetic		
12	Calculus 1 (1 week) Text Ref: Handout Approximating small changes in functions using derivatives	Exam 2.3b Topic 11,12	Week 8 Exam Block

This work plan was last updated on Friday, 18 August 2017. The contents are subject to change – students will be advised in advance of any changes - regularly check for updates.