

YEAR 11 MATHEMATICS C WORK PLAN: Semester 1, 2017 – Mrs Every



UNIT	TERM 1 TOPICS	ASSESSMENT	DUE DATE
1	Real and Complex Number Systems 1 (3.5 weeks) Text Ref: Ch 1A-N <ul style="list-style-type: none"> • Structure of the real number system • Rational numbers and Irrational numbers • Manipulation of surds • Inequalities 	Exam 1.1a Unit 1 45min	Week 4 Thursday 16th Feb Lesson 3
2	Introduction to Groups (1.5 weeks) Text Ref: Ch 4A-D <ul style="list-style-type: none"> • Modular arithmetic • Properties of groups • Cayley tables • Transformations 	Exam 1.1b Unit 2 & 3 90min	Week 9 Tuesday 21st March Lesson 3 & 4
3	Matrices and Applications 1 (3 weeks) Text Ref: Ch 3A-F <ul style="list-style-type: none"> • Dimensions of a matrix • Matrix operations • Inverse and solving matrix equations • Transpose of a matrix • Applications of matrices • Transformations using matrices 	Assignment 1.2	Handout: Week 7 Monday 6 th March Monitoring 1: Week 9 Tuesday 21 st March Monitoring 2: Week 1 Friday 21st April Due Date: Term 2, Week 5 Monday 15 th May
UNIT	TERM 2 TOPICS	ASSESSMENT	DUE DATE
4	Vectors and Applications 1 (3 weeks) Text Ref: Handout and Textbook Ch 7A-B <ul style="list-style-type: none"> • Operations on vectors • Scalar product of two vectors • Applications of vectors 	Assignment 1.2	Due Date: Week 5 Monday 15 th May
5	Structures and Patterns 1 (5 weeks) Text Ref: Ch 9A-H & Ch 10A-F <ul style="list-style-type: none"> • Arithmetic and geometric sequences • Finding the terms in arithmetic and geometric sequences • The sum of a given number of terms in an arithmetic or geometric sequence • Sum of an infinite geometric sequence • Applications of arithmetic and geometric sequences • Sequences and series other than arithmetic and geometric • Permutations and combinations 	Exam 1.3a Unit 4 90 min Exam 1.3b Unit 5 90 min	Week 6 Fri 26 th May Exam Block

This work plan was last updated on Wednesday, 26 April 2017. The contents are subject to change – students will be advised in advance of any changes - regularly check for updates.