

YEAR 12 MATHEMATICS A WORK PLAN: Semester 2, 2017 – Mr Mooney & Mrs Every



UNIT	TERM 3 TOPICS	ASSESSMENT	DUE DATE
1	Exploring and understanding data 2 (4 weeks) Q Maths Exercises: 4.1, 12.3 Maths Quest Exercises: 4A, 4B, 4D, 4E <ul style="list-style-type: none"> • use of summary statistics to draw and analyse conclusions, represent data and make inferences • summary statistics as sample statistics sample averages and medians as estimates of values • interpretation in context of row and column percentages for a contingency table (two-way table of frequencies) • misuse of probabilities, including misinterpretation of row and column percentages in contingency tables 	Assignment 4.2: Statistical Investigation.	Week 2 Handed out: Mon 17/7 Week 5: Monitoring Throughout week Week 5 Due Date: Mon 7/8
2	<ul style="list-style-type: none"> • interpret relationships between variables and make predictions by identifying and using trend lines (both linear and non-linear) Operations Research - networks and queuing 2 (4 weeks) Maths Quest Exercises: 8A → 8D <ul style="list-style-type: none"> • single- and multiple-server queues with constant arrival and service times • the effects on a queuing system of random arrival and service times • slack time in a critical path analysis 	Exam 4.1a Topic 1 Exam 4.1b Topic 2	Week 7 Tues 22 nd August Lessons 5 and 6 Week 9/10 Exam Block TBA
UNIT	TERM 4 TOPICS	ASSESSMENT	DUE DATE
3	Exploring and understanding data 3 (5 weeks) Maths Quest Exercises: 9A, 9B, and 10A→10H. <ul style="list-style-type: none"> • what a sample represents, and whether it is appropriate • the interpretation and use of sample averages and medians as estimates of underlying population values or of values in a model • interpretation and use of relative frequencies to estimate probabilities of individual values for discrete variables (including categories) and of intervals for continuous variables • interpretation and use of probability as a measure of chance in a range of practical and theoretical situations 	Exam 4.3	Week 6 Exam block

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