



AVONSIDE GIRLS' HIGH SCHOOL

MATHEMATICS 212, MAT212

COURSE STATEMENT 2009

General Aims

- *To develop problem solving and investigation skills*
- *To develop skills in statistical thinking and the interpretation of data*

Equipment

Students are required to have a scientific calculator or a graphics calculator, a graphics calculator would be an advantage.

Course Content and Learning Outcomes

This course offers 21 credits at Level 2 and 3 credits at Level 1. Extra Level 1 credits may be attempted if desired. Topics to be studied are listed in the Assessment Programme over the page. At the start of each topic students will be given a handout which will list the learning outcomes (objectives) for the topic. These reflect Achievement Objectives at Levels 6 & 7 of the National Curriculum.

Reassessment

There will be opportunity for one reassessment for each Internal Achievement Standard or Unit Standard. This will be offered to all eligible students regardless of the level of achievement in the first assessment.

Appeal Procedures

Any queries about marking decisions should be made to the class teacher when the assessment is handed back to the class. Any formal appeals need to be made **within one school week** of receiving a result. A disputed grade for an assessment will be investigated by Mrs Bull (HOD) or the Principal's Nominee, Ms Lynch (Term1), Mrs Butler (Term2, 3 and 4) who will investigate it further.

Work done in pencil or which has "white-out" corrections cannot be considered for appeals.

Attendance and Organisation

If you are absent from class it is your responsibility, when you return, to find out about work missed and any new announcements about assessments. Being well-organised is the key to success. This means bringing calculators and textbooks to class; it also means making time to do homework which is set to help you master the skills covered in class.

MAT 212
TOPIC OUTLINE & ASSESSMENT PROGRAMME 2009
STUDENT TRACKING SHEET

	<i>Achievement Standard details</i>	<i>Achievement standard descriptor</i>	<i>Assessment timing</i>	<i>Grade achieved</i>
Term 1				
Weeks 2 - 4	Geometry US5249 (v3) level 2 Internal 2 credits	Use networks to find optimal solutions to problems in geometry	Internal NCEA task Week 4	
Weeks 4 - 7	Money Matters US5234 (v4) level 1 Internal 3 credits	Use calculations in money situations	Internal NCEA task for 5234 Week 7	
Weeks 8 - 10	Money Investigation US12331 (v3) level 2 Internal 3 credits	Investigate and report on a mathematical project	Assignment for 12331 due Term2 Week 1	
Term 2				
Week 1 - 3	Trigonometry US5251 (v4) level 2 Internal 3 credits	Choose and apply trigonometric methods to solve problems involving lengths and angles	Internal NCEA task Week 3	
Week 4 - 6	Statistics – dealing with data US12332 (v3) level 2 Internal 2 credits	Demonstrate a knowledge of measures and displays used to compare data sets	Internal NCEA task Week 7	
Weeks 7 - 10	Algebra – sequences AS90290 (v2) level 2 External 2 credits	Solve straightforward problems involving arithmetic and geometric sequences	Topic test (formative) Week 10	
Term 3				
Weeks 1 - 5	Statistics – sampling AS90288 (v2) level 2 Internal 3 credits	Select a sample and use this to make an inference about the population	Internal NCEA task Week 5	
Week 6	School exams			
Week 7 - 10	Statistics – questionnaires US12333 (v3) level 2 Internal 3 credits	Demonstrate an understanding of, and use, questionnaire design	Internal NCEA task Part 1 Week 8 Part 2 Week 10	
Term 4				
Weeks 1 - 3	Algebra – graphs AS90285 (v2) level 2 External 3 credits	Draw straightforward non-linear graphs	Topic test (formative) Week 4	
Weeks 4 - 5	Revision for externals			