MATHEMATICS, MAT222
2009

Aims/General Learning Outcomes
- To apply mathematics in context
- To develop effective problem solving skills
- To develop investigation skills

Course Content
The course covers Algebra, Calculus, Statistics, Probability and Trigonometry. Topics are listed in order in the assessment programme over the page.
At the start of each topic you will be given a copy of the Achievement Standard and information on learning outcomes (objectives) for the topic. These reflect the Achievement Objectives in Level 7 of the National Curriculum. This will include a list of work from the textbook that you need to complete.

Recording Results
Included in this handout is a record sheet for you to record your results which will give details of all other school-based tests and examinations. Your achievement will be indicated on the assessment task as it is handed back to you. The class teacher will hold a master copy of your results, however you should keep your own record on the tracking sheet provided.

Verification of assessment results
Throughout the year you will be asked to sign a record sheet to verify your grades before the results are transferred to NZQA. This should be done as soon after the completion of your assessment as possible.

Appeals
Any queries about an assessment decision should be made to your class teacher when the assessment is handed back. Any formal appeals should be made, **within one week** of the assessed work being returned to the Head of Department, Mrs Bull, or the Principal's Nominee, Ms Lynch in term1 and Mrs Butler in terms 2, 3, and 4 who will investigate it further.

Work done in pencil or which has 'white-out', (liquid paper) corrections cannot be reconsidered for appeals. Appeals need to be made within one school week of receiving a result.

Further assessment opportunities
For each of the Internal Achievement Standards there will be one reassessment opportunity.
Where a reassessment opportunity is offered it will be available to all eligible students regardless of the level of achievement in the first assessment.

MAT 222
TEACHING AND ASSESSMENT PROGRAMME 2009

Term 1			***Achievement Standard***	***Credits***	***Result***
Weeks 2 - 4	**Algebra** Manipulate algebraic expressions	Test on basic skills	Part 90284		
Weeks 5 – 6	**Trigonometry** Solve practical trigonometry problems	Internal NCEA task – assessment start week 7 Reassessment T1 week 10	90291 (v2)	2	
Weeks 7- 10	**Algebra** Solve equations – linear, quadratic, exponential	Practice test	90284 (v2)	4	
Term 2					
Weeks 1 – 2	**Statistics** Select a sample and make inferences from the data	Internal NCEA task assessment – start of week 3 Reassessment T2 week 5	90288 (v2)	3	
Weeks 3 – 6	**Algebra** Sketch and interpret non-linear graphs	Practice test End of week 6	90285 (v2)	3	
Weeks 7 - 10	**Probability** Simulate probability situations, and apply the normal distribution	Internal NCEA task assessment - week 10 Reassessment term 3 week 2	90289 (v2)	2	