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Palmerston North Boys' High School

National Certificate of Educational Achievement

Mathematics and Statistics

Student Information 2014

Year 11 Mathematics – 11MTM

This course is designed for those students that have found Mathematics challenging at previous levels. It covers material up to Level 6 of the National Curriculum, encompassing the three strands – Number & Algebra, Geometry & Measurement and Statistics. Students who take this course will concentrate mainly on internal Achievement Standards as well as developing their own portfolios of evidence showing mastery of core skills.

This course offers 25 NCEA Level One Mathematics and Statistics credits. These credits are made up from three internal and one external Achievement Standards and three Unit Standards.

General Aims

Students are expected to:

- demonstrate mathematical skills, concepts and understanding in the Number and Algebra, Geometry and Measurement and Statistics curriculum strands.
- apply skills and concepts to contextual problems in a variety of situations.
- use appropriate mathematical techniques when problem solving.
- be able to reason logically and systematically.
- be able to communicate mathematical ideas in a concise and coherent manner.

Internal Assessment

Students who have missed internal assessment through genuine reasons will be required to sit a missed assessment afterschool on the Thursday immediately after the assessment was scheduled. A note from home is required explaining the absence. A medical certificate may also be required. More information regarding PNBHS assessment policy can be found in the NCEA Policies and Procedures Handbook.

Reassessment opportunities MAY be available for certain Achievement Standards. These will be publicised by the Head of Department Mathematics.

Success in Mathematics

Some key factors that contribute to success are:

- Work in class – Students should maximise their time in class. Neat and tidy records need to be kept of their work and any missed work should be caught up. Students should ask their teacher for assistance when experiencing difficulties.

- Equipment – Students must be well organised for class and ensure that they bring the correct equipment to every class. This should include: a calculator, exercise books, text books and a ruler.

- Homework – Regular homework is required to master and consolidate the work done in class. Usually this will be set by their teacher, however, during the year time will need to be set aside for revising work.

- Support – Students should ask their teacher if they are experiencing difficulties. Mathematics is a subject that builds on concepts previously taught. Mastery of these concepts will make it easier to attain good results in future years.

<u>11 Mathematics Assessment Dates 2014</u>

Topic	**Assessment Date**	**Nature of Assessment**	**Credits**
AS 1.1 Number	28th February	Internal	4
AS 1.7 Right-angled Triangles	11th April	Internal	3
AS 1.10 Multivariate Data	30th May	Internal	4
AS 1.6 Geometric Reasoning	4th July	Practice Test	4
US 26623 - Number	1st November	Portfolio	4
US 26626 - Statistics	1st November	Portfolio	3
US 26627 - Measurement	1st November	Portfolio	3

<u>PNBHS Practice Examinations (12th – 19th September)</u>

AS 1.6 Geometric Reasoning

<u>NZQA External Examinations (18th November – 9.30am)</u>

AS 1.6 Geometric Reasoning