

# YEAR 12MTB MATHEMATICS 2010

The Year 12 Mathematics course, 12MTB, at Christchurch Boys' High School is designed for students who have gained some credits from NCEA Level 1, but not sufficient to progress to the Achievement Standards year 12 course.

## OBJECTIVES OF THE COURSE:

- To give the opportunity for students to gain credits at Level 2 of the NCEA.
- To give students, who do not intend to progress any further in Mathematics, a good grounding in some Mathematics which can be usefully applied in other areas.
- To provide students a pathway to the Year 13 Mathematics with Statistics course.
- To demonstrate the ability to think and reason logically.
- To demonstrate the ability to use their own language and the language of mathematics to communicate mathematical ideas.

## CONTENT AND ASSESSMENT

Assessment will comprise of internally assessed Unit Standards at Level 2. Credits counting towards NCEA Level 2 can be gained from these assessments.

In addition, students may wish to re-sit any Level 1 externally assessed Achievement Standards that were not passed last year. Revision for these will be built into the programme in term 4, as required.

TOPIC	UNIT STANDARD	CREDITS
TRIGONOMETRY	US 5251	3
SURVEYING	US 12318	3
SEQUENCES AND SERIES	US 5248	2
PROBABILITY	US 5250	2
NETWORKS	US 5249	2
COORDINATE GEOMETRY	US 5245	2
STATISTICS	US 12332	2
	US 12333	2
GEOMETRIC REASONING	US 5252	2
NAVIGATION	US 7560	3

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The Unit Standards assessments are given immediately following the teaching of the topic.

Re-tests may be given for Unit Standard assessments. These may be held out of class time.

A lack of time may mean the final one or more Unit Standards may not be covered.

Any external Level 1 Achievement Standards students opt to do are examined in November.

## STUDENT RESPONSIBILITIES:

- Students will be expected to apply themselves in class consistently.
- Students are expected to complete set work before the next lesson.
- Students are expected to complete 30 minutes of homework and revision following every lesson. This includes the completion of class work when necessary.
- Students are expected to catch up on all notes and examples and all missed work when they are absent from class.
- Students are expected to come prepared for each class, having with them the required books and equipment.
- Students are expected to take care of school books and take pride in their own books and work.