

YEAR 11 MATHEMATICS APPLIED

This course is designed for the class studying towards the National Certificate in Employment Skills

The course is based on units of work each with topics assessable by internally assessed Unit Standards.

COURSE AIMS:

- Students will pass the Unit Standards which are a requirement for National Certificate in Employment Skills.
- Students will gain the 8 Mathematics credits required for NCEA numeracy.
- Students will gain a number of Mathematics credits, in excess of 8, towards NCEA.
- Students gain skills helpful to them when they leave high school gain employment.
- Students will study topics of mathematical interest.
- Students will develop research and reporting skills.

COURSE OUTLINE

Units of Work	US no.s	Description of Unit Standard
Unit 1 Tables and Graphs	8491 5226	Read and interpret information presented in tables and graphs. Construct and use tables and graphs.
Unit 2 Mathematical Study	7570 12328	Carry out and report on a given mathematical study Demonstrate knowledge of the history of a mathematical topic or mathematician
Unit 3 Non calculator unit	8489 23738 20663	Solve problems which require calculation with whole numbers Use numeracy strategies to solve problems involving whole numbers Use a strategy to estimate the solution to number problems
Unit 4 Measurement	8492 20662 12319	Use standard units of measurement Make estimates of measurements with common units Find relationships between measurements
Unit 5 Fractions, Decimals and Percentages	8490 5224 5227	Solve problems using calculations with numbers expressed in different forms Use decimals and percentages to solve problems Solve problems involving money

Unit 6 Statistics and Probability	7565	Carry out and report on a given statistical investigation
	7571	Use simulation techniques to determine probability and solve problems
Unit 7 Geometry and Design	7559	Demonstrate knowledge of the mathematics of geometry patterns.
	12322	Use mathematics in the design of a given object or process.

- 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.

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 the required 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.