



Otumoetai College

Mathematics Department

National Certificate in Educational Achievement Level 1 Year 11 Modular Mathematics 2011

To the students:

This course is intended for those students who wish to take YEAR 12 NCEA Level 2 Modular Mathematics next year.

The course consists of these units of work:

Standard	Topic	Credit Value	Type of Assessment
AS 91026	Apply numeric reasoning in solving problems	4	Internal
AS 91029	Apply linear algebra in solving problems	3	Internal
AS 91030	Apply measurement in solving problems	3	Internal
AS 91034	Apply transformation geometry in solving problems	2	Internal
AS 91035	Investigate a given multivariate data set using the statistical enquiry cycle	4	Internal
AS 91037	Demonstrate understanding of chance and data	4	External

The units of work are spread over the whole year. They are based on the three strands of the Mathematics in New Zealand Curriculum document. The course contains Achievement Standards at Level 1 of the curriculum in Mathematics.

Each Achievement Standard will be assessed against the grades

N	=	Not achieved
A	=	Achievement
M	=	Achievement with Merit
E	=	Achievement with Excellence.

This table lists all of the Standards being offered, their credit value and whether an internal or an external assessment gains the standard.

Standard	Term	Topic	Credit Value	Type of Assessment
AS 91026	1	Apply numeric reasoning in solving problems	4	Internal
AS 91029	1	Apply linear algebra in solving problems	3	Internal
AS 91035	2	Investigate a given multivariate data set using the statistical enquiry cycle	4	Internal
AS 91034	3	Apply transformation geometry in solving problems	2	Internal
AS 91030	3	Apply measurement in solving problems	3	Internal
AS 91037	4	Demonstrate understanding of chance and data	4	External

For the **externally** assessed achievement standard a progress grade will be reported on the College report. This will only be an indication of the level of achievement so far achieved. The final grade for external assessed standard will be gained in the external examination sat in November.

The department offers a range of courses in NCEA level 2 Mathematics, see the course selection booklet for the prerequisites for each course.

Remember once a total of 80 credits have been achieved you are eligible to receive the National Certificate of Educational Achievement Level 1 but to do so you must have **ten** credits in both Mathematics and English.

Resources

In the classroom your teacher will use a variety of other resources:

Gamma Mathematics; a Mathematical Journey for Year 11 Students by David Barton, as well as other textbooks and work sheets.

At the beginning of each unit of work you will be given an '**I Can Do**' sheet. This is designed to help you monitor your progress through the unit of work and it is your record of learning in Mathematics.

You will be expected to purchase a copy of **Year 11 Mathematics Achievement Standards** from your mathematics teacher, which is a Write-On homework book.

Assessment

How will you be assessed?

Assessments may be formative or summative.

Formative assessments, such as assignments or end of unit tests, are used to give an indication of areas of weaknesses and to give you an opportunity to improve on them before the summative assessment.

Summative assessments are used to determine your understanding of a section of work.

Formative assessments are **not** counted toward your final grade. Summative assessments **are** recorded and determine your final grade and have to be **sat on the specified day**.

All assessments are **compulsory**.

Internal Assessment

The College conducts this. Your final grade will be determined by how well you do, and will be graded according to the four levels of achievement for Achievement Standards, and the two levels for Unit Standards. These are summative assessment.

External Examination

The New Zealand Qualification Authority sets this. What you do on the day of the examination is the level of achievement you will be awarded in each of the externally assessed Achievement Standards. Each Achievement Standard will be awarded its own separate grade. This is a summative assessment.

The College conducts formative assessments throughout the year on each of the externally assessed Achievement Standards. These will be reported upon on the College reports as previously mentioned.

College Examinations

Both College examinations are compulsory. The internally and externally assessed Achievement Standards are reported as previously mentioned.

It is necessary to achieve to your full potential throughout the year in all assessments in case the need arises for you to seek a **Derived Grade** in the final external examination.

Recording marks

Your teacher will keep **ALL** assessed work for the external Achievement Standard in a safe place.

You will be given a summary sheet of all the Achievement and Unit Standards, and their credit value, for you to fill in after every assessment. This is designed to be your record of your running credit total and you will be responsible for maintaining it. Your

teacher will also keep a record. Remember external credits can only be gained at the end of the year in the examination organised by NZQA.

Moderation between Classes

All assessments are common to all classes and have a common marking schedule. Inter-class moderation is achieved by check marking across the classes.

Samples of student work will be sent to NZQA to compare with student work from other secondary schools to ensure consistency of standards.

In the mid-year and end-of-year examination each teacher will be responsible for marking their own class's scripts to a common mark schedule.

Authenticity of Student Work

All work must be the student's own. If a staff member is in doubt the student will be asked to provide further evidence, orally or in writing, by explaining or solving a similar problem etc.

An inadequate explanation will result in no achievement grade being awarded. NZQA Policy will be followed.

Appeals

If a student is not satisfied with a particular assessment result, the student must discuss it with the class teacher within 24 hours of the assessment being handed back. The assessment does not leave the classroom.

Students not satisfied with the discussion should approach the Assistant Head of the Mathematics Department (Mr Ellwood) as soon as possible, provided the assessment does not leave the room and is handed onto Mr Ellwood, by the classroom teacher.

Students taught by Mr Ellwood should approach Mr Dixon.

Reassessment

Opportunities for reassessment **may** be available Unit Standards. Your teacher will advise you when the opportunity is available. It may require you to attend a tutorial prior to reassessment.

Storage of Student Work

The College will keep all student work for internally assessed standards until such time as it is no longer required for moderation purposes.

It is expected of you to satisfactorily prepare yourself for each Achievement Standard Assessment through the guidance of your teacher.

Your teacher and the Mathematics Department have the responsibility to prepare you for the internal and external assessments.

You have the responsibility to complete all set work to the best of your ability, to be in class on time, to meet all deadlines and to act and behave in a responsible manner so that you can achieve to your potential. Your behaviour in the class should not impact on the other people in the classroom.

Reports

There will be a report evening in Term 1 Week 11.

Written reports are issued in Term 2, Week 11, and in Term 3, Week 10.

You are expected:

1. To attend class regularly. All absences from class, for whatever reason, will be recorded as an absence.
2. To have all necessary equipment – stationery, calculator, etc., to be able to participate fully in the classroom.
3. To complete all class work and assessment pieces as set by the classroom teacher.
4. To complete all set work on time.
5. To sit assessments. Should you miss an assessment you will not be able to sit it.

Note:

1. Should a class be missed, for whatever reason, you are responsible for catching up.
2. In the event of an absence for an extended period, you are expected to see the Head of the Mathematics Department, Mr Dixon, and the Deans to discuss how you are to catch up on the missed work.
3. Sporting and Cultural Trips are not an excuse for work not being handed in on time. Permission for extensions should be sought in advance.
4. Any work completed on a computer should be backed up on a disc. Should a computer or printer malfunction the night before the work is to be handed in the disc will be evidence that it was completed on time. A hard copy will have to be produced at school that day from the disc.
5. Late work will be marked at the discretion of your classroom teacher.
6. Do not expect to negotiate any deviations from the above on the day work is due to be handed in.