Otumoetai College
Mathematics Department

Year 10 Mathematics Advanced Learner B Programme 2019

At Otumoetai College all students in years 9 – 11 are required to study Mathematics and nearly all students in year 12 also study Mathematics.

This year, the Advancer Learner B class content will be split into two halves.

Terms 1 and 2, will be completely **project based**. These projects will be heavily weighted toward Mathematics, but will also contain some Science, Technology and Engineering.

You will be expected to actively problem solve, actively learn, and collaborate to complete these projects.

Throughout Terms 3 and 4, you will complete the following NCEA Level One internally assessed Standards. These standards carry credits that can be gained and used towards Level 1 NCEA. These grades will be stored on the school's student management system and logged with NZQA early next year. More information will be given on this later in the year.

Assessment

Standard	Topic	NCEA Level	Credit Value	Type of Assessment
AS 91032	Apply right-angled triangles in solving measurement problems	1	3	Internal
AS 91026	Apply numeric reasoning in solving problems	1	4	Internal
AS 91027	Apply algebraic procedures in solving problems	1	4	Formative (CAT)

Assessment will be completed at the end of each unit. Your assessment grade will be given using the following descriptors.

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

Note that at the end of the year, 10MATH ALB students will sit a different two hour Mathematics examination than other Year 10 students. This will cover practice towards AS 91027 Algebra, including some Graphing. This examination result, along with performance throughout the year, will determine class placement for next year.

External assessment
It is school policy that Year 10 students do not sit externally-assessed exams until Year 11. 10MATH ALB students will have the opportunity to gain credits in AS91027, AS91028 and AS91031 in 2020 should they choose to.

Resources
ESA Learning Workbooks will be used to assist learning and understanding of the NCEA Achievement Standards. These are individual booklets relating to a standard that the students are sitting. The **TOTAL** cost of these booklets is **$20**. These booklets will be ordered at the start of the year and given to you when each standard is taught. You will be requested to purchase a set of these Workbooks through the school office.

Appeals
If a student is not satisfied with a particular assessment result, the student must discuss i 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 Head of the Mathematics Department (Mr Ellwood) as soon as possible, provided the assessment does not leave the room and is handed on to Mr Ellwood by the classroom teacher.

Teachers and the Mathematics Department have the responsibility to help students achieve to their full potential.

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

In the year 2020
The majority of students from this class will be looking at continuing on to NCEA Level 2 Mathematics by being invited to complete the L1/2MATH AL course. Some students may opt to instead complete the L1MATH course, which offers another attempt at credits in level 1 Achievement Standards.

Good Luck for 2019.

J. Ellwood
HOD Mathematics
February 2019