



# Otumoetai College

## Mathematics Department

### Year 10 Mathematics 2018

At Otumoetai College all students in Years 9 – 11 are required to study Mathematics and Statistics; most students in Years 12 and 13 also study Mathematics and Statistics.

In 2018, Year 10 students will continue to strengthen their foundation of basic mathematical ability while preparing for NCEA assessment in the following year. Our aim is to create capable, confident and resilient learners.

#### Topics

1. Geometry
2. Measurement
3. Statistics
4. Algebra and Graphs
5. Number
6. Probability

#### Assessment

1. Measurement and Statistics will be assessed using project-based tests in Terms One and Two.
2. Geometry and Probability are assessed using e-asTTle.
3. There will be a written assessment for the Algebra topic including Patterns and Graphs, in Term Three.
4. The end of year examination has two components: the first (without calculators) will include Algebra. The second will be a two hour examination (with calculator) covering the rest of the year's work.
5. Test and examination grades are used to help decide student subject placements within Mathematics and Statistics for the following year.
6. Most students will also have the opportunity to sitting a NCEA Level One Achievement Standard worth 4 credits (AS91026 Apply Numeric Reasoning in Solving Problems). This will be completed in Term Three.

#### Appeals

If a student is not satisfied with a particular assessment result, the student must discuss it with the class teacher immediately **-before** the assessment leaves the room.

If any student is not satisfied with the discussion he or she should approach Mr Ellwood (Head of Department) as soon as possible. The assessment will be handed to Mr Ellwood by the classroom teacher.



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#### Equipment

Students receive a separate stationery list. For this subject they will require quad books, the normal range of pens, rulers and protractors, as well as a scientific (or graphics) calculator.

#### Homework

Homework will be set from a commercial web based package called Manga High. The cost will be \$10 for the year. The classroom teacher will set exercises weekly which students are to complete. The exercises are marked electronically and feedback is immediate. Feedback is the most effective way for students to learn.

#### Mathematics Competitions

Your students will be invited to enter the Otago University NZ Mathematics competition and the Australian Mathematics competition. There will be a small charge to cover entry fees for these competitions. We encourage many students in Year10 to enter. There is also a quiz competition between the Bay of Plenty schools called Mathmind.

**Your teacher and the Mathematics Department** have the responsibility to help students achieve to their full potential. If students, parents and teachers work together then students can achieve great progress.

**Students:** 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, along with all of your classmates.

***On behalf of all the OTC mathematics teachers , I wish your son or daughter a very successful 2018. Please do not hesitate to email your designated mathematics teacher with any queries or concerns.***

**J. Ellwood**  
**HOD Mathematics**  
**February 2018**