

Queen Margaret College
Level 3 Mathematics with Statistics Programme 2019
Level 8 of the New Zealand Curriculum

Standard Number	Achievement Standard Title	Credits	Internal / External	Proposed assessment date
AS91581, 3.9	Investigate bivariate measurement data	4	Internal	Term 1, Week 6
AS91582, 3.10	Use statistical methods to make a formal inference	4	Internal	Term 1, Week 11
AS91585, 3.13	Apply probability concepts in solving problems	4	External	Term 2, Week 7
AS91576, 3.4	Use critical path analysis in solving problems	2	Internal	Term 3, Week 2
AS91583, 3.11	Conduct an experiment to investigate a situation	4	Internal	Term 4, Week 1

Course details

This course requires students to thinking mathematically and statistically in a range of contexts. Topics include probability methods, making inferences about populations, the concepts of correlation and causality, and conducting statistical experiments. This course involves an emphasis on technology for internally assessed standards to explore and model statistical situations.

Assessment Information

EXTENAL ASSESSMENTS:

- At the end of each topic students sit a practice assessment similar to the external assessment.
- Students will also sit practice examinations for each external Achievement Standard during the QMC school examinations in the third term.

INTENAL ASSESSMENTS

- During the teaching of each topic, practice assessment tasks will be given to prepare the students for the final task.
- If a student is absent from the internal assessment, they must follow the school policy on absences for NCEA assessments.

Course Information

- The *Mathematics Club* students is staffed by teachers every week, usually one at lunchtime and one after school. Students can attend to do their homework or receive some extra help.
- Some more able students will have the opportunity to participate in competitions:
 - ✓ The *Australian Mathematics Competition* is held in August (entry fee approximately \$6.50).
 - ✓ The *Senior Mathematics Competition* is held in May (entry fee approximately \$5).
- All students are registered with the Education Perfect software for Mathematics.
- Students must have a graphing calculator, preferably a Casio FX9750GII.

Homework expectations

To be successful with Level 3 Mathematics, students should make full use of class time and do regular study each day. All students will be issued with individual workbooks (approximate cost \$30).

Your daughter should be learning at home for a total of at least 15 hours per week, across all subjects. To achieve at a high level in this subject, students are expected to complete some homework during the week. Homework might include:

- Revision of daily/weekly content covered in class.
- Reading of text or reference material.
- Reinforcement of skills.
- Reflection of lessons and/or tasks.
- Preparation/revision for assessments.
- Completion of assignments.