

Queen Margaret College
Level 2 Mathematics with Statistics Programme 2019
Level 7 of the New Zealand Curriculum

| Standard Number | Achievement Standard Title | Credits | Internal / External | Proposed assessment date |
|-----------------|---|---------|---------------------|--------------------------|
| AS91265, 2.10 | Conduct an experiment to investigate a situation using statistical methods. | 3 | Internal | Term 1, Week 6 |
| AS91268, 2.13 | Investigate a situation involving elements of chance using a simulation. | 2 | Internal | Term 1, Week 10 |
| AS91263, 2.8 | Design a questionnaire. | 3 | Internal | Term 2, Week 3 |
| AS91264, 2.9 | Use statistical methods to make an inference. | 4 | Internal | Term 2, Week 8 |
| AS91267, 2.12 | Apply probability methods in solving problems. | 4 | External | Term 3, Week 3 |
| AS91260, 2.5 | Apply network methods in solving problems | 2 | Internal | Term 3, Week 9 |

Course details

This course requires students to thinking mathematically and statistically in a range of contexts. Topics include probability methods, making inferences about populations, simulating probability situations, designing questionnaires, and conducting statistical experiments. This course leads naturally to NCEA Level 3 Mathematics with Statistics in Year 13.

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 (approximate cost \$20).
- Students must have a graphing calculator, preferably a Casio FX9750GII.

Homework expectations

To be successful with Level 2 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.