Queen Margaret College
Year 11 Mathematics Programme 2019
Level 6 of the New Zealand Curriculum

Standard Number	Achievement Standard Title	Credits	Internal / External	Proposed assessment date
AS91026, 1.1	Apply numeric reasoning in solving problems.	4	Internal	Term 1, Week 6
AS91028, 1.3	Investigate relationships between tables, equations and graphs.	4	External	Term 1, Week 11
AS91031, 1.6	Apply geometric reasoning in solving problems.	4	External	Term 2, Week 5
AS91027, 1.2	Apply algebraic procedures in solving problems.	4	External	Term 3, Week 3
AS91030, 1.5	Apply measurement in solving problems.	3	Internal	Term 4, Week 1

Course details

This course requires students to thinking mathematically and statistically in a range of contexts. Topics include number, algebra, measurement, geometry, and graphs for all students. The course is designed to extend mathematical knowledge and understanding in preparation for *NCEA* or *IB Diploma* courses in Year 12.

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.
- *91027 Apply algebraic procedures in solving problems* will be assessed by a Common Assessment Task (MCAT) during the third term. **This is the final assessment for this standard.** If a student is absent from MCAT then they must follow the school policy on absences for external NCEA examinations.

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

- Mathematics is a compulsory subject in Year 11.
- 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 *Junior Mathematics Competition* is held in March (entry fee approximately $5).
  - ✓ A team will be selected to represent QMC in the *Mathswell* competition.
- All students are registered with the Education Perfect software for Mathematics (approximate cost $20).
- Students must have either a scientific calculator (Casio FX82) or a graphing calculator (Casio FX9750GII). Graphing calculators are highly recommended and are compulsory for all students studying either *IB Diploma* or *NCEA* Level 2 or Level 3 Mathematics courses.

Homework expectations

To be successful with Level 1 Mathematics, students should make full use of class time and do regular study each day.

Your daughter should be learning at home for a total of at least 10 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.
- Reinforcement of skills.
- Reflection of lessons and/or tasks.
- Preparation/revision for assessments.
- Completion of assignments.

All students will be issued with individual workbooks (approximate cost $30).