

Year 10 Maths

Semester 1 Course Outline

In Year 10 Mathematics this semester, students will be studying units on Scientific Notation and Financial Literacy, Statistics, Probability, Linear Equations, and finishing off with Measurement. The semester 1 assignment will be a Geometry based investigation. A major focus throughout this semester will be mathematical thinking, communicating and the further development of foundation numeracy skills.

Learning Outcomes

Students will be assessed on the following Learning Outcomes:

- 9.312 - Applies the index laws to numbers and expresses numbers in scientific notation
- 10.321 - Recognises the connection between simple and compound interest
- 10.323 - Solves surface area and volume problems relating to composite solids
- 10.331 - Finds unknown values after substitution into formulas
- 10.332 - Performs the four operations with simple algebraic fractions
- 10.333 - Solves simple quadratic equations and pairs of simultaneous equations
- 10.325 - Applies deductive reasoning to proofs and numerical exercises involving plane shapes
- 10.326 - Compares data sets by referring to the shapes of the various data displays
- 10.327 - Describes bivariate data where the independent variable is time
- 10.328 - Describes statistical relationships between two continuous variables
- 10.329 - Evaluates statistical reports
- 10.334 - Uses triangle and angle properties to prove congruence and similarity
- 10.336 - Lists outcomes for multi-step chance experiments and assigns probabilities for these experiments
- 10.337 - Calculates quartiles and inter-quartile ranges

Assessment Tasks

Students will be assessed on their participation and completion of classwork and assessment tasks.

Task	Week Due*
Scientific Notation and Financial Literacy Test	Term 1, Week 3
Statistics Test	Term 1, Week 7
Probability Test	Term 1, Week 9
Semester 1 Assignment	Term 2, Week 2
Linear Equations Test	Term 2, Week 5
Measurement Test	Term 2, Week 8

*Due dates are an estimate only

Teachers: Sam Holmes, Tracey Marris and Reece Jones

Executive Teacher: Rod Grieve