

Year 9 Maths Lexas/Level 1

Semester 2 Course Outline

Last semester concluded with a unit on surds that will be reported on this semester. This semester, Year 9 Lexas/L1 Mathematics, students will be studying units on Index Laws, Linear Equations, Linear Relationships, Probability, and Expanding and Factorising in Algebra. The semester 2 assignment will have a problem solving component with a focus on the use of surds. 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:

- 10.321 - Solves problems involving linear equations and inequalities
- 10.333 - Solves simple quadratic equations and pairs of simultaneous equations
- 10A.3513 -Solves problems involving fractional indices and surds
- 8.301 - Solves linear equations and graphs linear equations on the Cartesian plane
- 9.314 - Finds the distance between two points on the Cartesian plane and the gradient and midpoint
- 9.315 - Sketches linear and non-linear relations
- 9.316 - Calculates areas of shapes and the volume and surface area of right prisms and cylinders
- 9.312 - Applies the index laws to numbers and expresses numbers in scientific notation
- 9.313 - Expands binomial expressions
- 10.330 -Expands binomial expressions and factorises monic quadratic expressions
- 8.300-Simplifies a variety of algebraic expressions

Assessment Tasks

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

Task	Week Due*
Surds Test	Term 2, Week 10 (Completed)
Index Laws	Term 3, Week 3
Linear Relationships Test	Term 3, Week 7
Assignment - Surds	Term 3, Week 5
Measurement	Term 3, Week 10
Algebra Test	Term 4, Week 4
Equations and Simultaneous Equations	Term 4, Week 8
Mathspace Tasks	Ongoing

*Due dates are an estimate only

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