Year 8 Maths
Semester 2 Course Outline

In Year 8 Mathematics this semester, students will be studying units on Algebra and Index Laws, Rates and Ratios, Equations, Statistics, Probability and Congruence. The semester 2 assignment will be an investigation focusing on Ratios and problem solving. 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:
- 8.288 - Solves everyday problems involving rates, ratios and percentages
- 8.289 - Describes index laws and applies them to whole numbers
- 8.292 - Makes connections between expanding and factorising algebraic expressions
- 8.300 - Simplifies a variety of algebraic expressions
- 8.301 - Solves linear equations and graphs linear relationships on the Cartesian plane
- 8.298 - Explains issues related to the collection of data and the effect of outliers or means and medians in that data.
- 8.296 - Models authentic situations with two-way tables and Venn diagrams
- 8.302 - Converts between units of measurement for area and volume
- 8.303- Performs calculations to determine perimeter and area of parallelograms, rhombuses and kites
- 8.304- Names the features of circles and calculates the areas and circumferences of circles
- 8.295 - Identifies conditions for the congruence of triangles and deduces the properties of quadrilaterals
- 9.317 - Uses Pythagoras' Theorem

Assessment Tasks

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

Task	Week Due*
Algebra and Index Laws Test	Term 2, Week 10 (Completed)
Equations Test	Term 3, Week 5
Rates and Ratios Test	Term 3, Week 10
Pythagoras' Theorem	Term 4, Week 3
Measurement Test	Term 4, Week 8
Assignment	Term 4, Week 2
Mathletics Tasks	Ongoing

*Due dates are an estimate only
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Executive Teacher: Rod Grieve