

Year 8 Maths

Semester 1 Course Outline

In Year 8 Mathematics this semester, students will be studying units on Integers, Fraction, Decimals, Percentages, Pythagoras' Theorem, Measurement, and will finish off with Algebra and Index Laws. The semester 1 assignment will be an investigation focusing on the geometric features of quadrilaterals. 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
- 8.291 - Solves problems involving profit and loss
- 8.293 - Solves problems relating to the volume of prisms
- 8.294 - Makes sense of time duration in real applications
- 8.295 - Identifies conditions for the congruence of triangles and deduces the properties of quadrilaterals
- 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
- 8.299 - Uses efficient mental and written strategies to carry out the four operations with integers
- 8.289 - Describes index laws and applies them to whole numbers
- 8.290 - Describes rational and irrational numbers
- 8.292 - Makes connections between expanding and factorising algebraic 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*
Integers	Term 1, Week 3
Fractions, Decimals and Percentages	Term 1, Week 7
Pythagoras' Theorem	Term 1, Week 9
Measurement	Term 2, Week 4
Semester 1 Assignment	Term 2, Week 5
Algebra and Index Laws	Term 2, Week 8

*Due dates are an estimate only

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