



Year 8 Maths P Program

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
(Example)

- Year.5.228 Identifies and explains strategies for finding unknown quantities in number sentences involving the four operations
- Identifies and explains strategies for finding unknown quantities in number sentences
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Assessment Tasks

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

Task	Week Due*
Class tasks and activities collected in a learning portfolio	Ongoing

Teacher/s:

Executive Teacher: Wayne Smith

Solving multistep equations

Solving equations with variables on both sides

Writing equations from word problems

Formulas and relationships

Solving equations with fractions on both sides

Writing and solving Inequalities

Writing ratios

Equivalent and Simplifying Ratios

Using Ratios to find amounts

Dividing in a given ratio

Unit Ratios and Scale factors

Scale Drawings

Calculating Rates

Converting Rates

Units of Length

Units of area & volume

Conversions

Perimeter - basic and composite

Area - basic and composite

Circle concepts

Circumference & Perimeter - circles to sectors

Area - circles to sectors

Perimeter and Area of Composite Shapes, including circles

Volume and Capacity - prisms

Time

Identifying right-angled triangles

Finding unknown sides

Pythagorean Triples/Triads

Problem Solving

Similar and Congruent Triangles - Tests

Similar and Congruent Triangles - Proofs