Subject 7 Mathematics

Course Content:

The proficiency strands *Understanding, Fluency, Problem Solving and Reasoning* are an integral part of mathematics content across the three content strands: *Number and Algebra, Measurement and Geometry, and Statistics and Probability*. The specific topics for Semester 1 are:

- Whole Number
- Fractions
- Decimals & Percentage
- Integers (positive and negative numbers)
- Algebra

*At this year level:*

*Understanding* includes describing patterns with whole numbers, recognising equivalences between fractions, decimals, percentages and ratios, identifying angles formed by a transversal crossing a pair of lines

*Fluency* includes representing fractions and decimals in various ways, investigating best buys and calculating areas of shapes and volumes of prisms

*Problem Solving* includes formulating and solving authentic problems using numbers and measurements, working with transformations and identifying symmetry and calculating angles

*Reasoning* includes applying the number laws to calculations, and applying known geometric facts to draw conclusions about shapes

Assessment

Assessment will include a range of the following, both as individual and group tasks:

- Tests
- Directed investigations
- Assignments
- Research
- Folios
- Other tasks as directed by the teacher