

Year 7 Maths P Program

Semester 2 Course Outline

In Year 7 Mathematics this semester, students will be studying units on Fractions, Decimals, Percentages, Equations, Measurement and Probability. The semester 2 assignment will be on Fractions, to help reaffirm and strengthen skills learnt this semester. 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.4.222 Classifies angles in relation to a right angle
- Year.5.239 Measures and constructs different angles
- Year.3.189 Models and represents unit fractions
- Year.5.234 Adds and subtracts fractions with the same denominator
- Year.6.245 Connects fractions, decimals and percentages as different representations of the same number
- Year.4.208 Identifies and explains strategies for finding unknown quantities in number sentences
- Solves problems involving length and area

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

Fraction Concepts

Estimate and Compare Fractions

Simplify and Equivalent Fractions

Mixed and improper fractions

Add/Subtract fractions

Multiply/divide fractions

Place Value and comparisons

Rounding Decimals

Add/Subtract Decimals

Multiply/Divide Decimals

Solving problems with fractions and decimals

Negative fractions & decimals

Types of decimals

Recurring Decimals

Number sentences

Writing equations

Solving simple equations

backtracking, balancing, opposite methods

Solving two step equations

Solving eqns with variables on both sides

Solving word problems

Formulas and Substitution

Simplifying expressions + - x /

Expanding brackets

The perimeter of regular and composite shapes

Area of regular and composite shapes (straight line)

The volume of rectangular prisms

converting units of length (of area)

Sample space

Calculating Probability

Experimental Probability

Theoretical Probability

Venn Diagrams, tree diagram two-way way tables