

# Year 7 Maths

## Semester 1 Course Outline

In Year 7 Mathematics this semester, students will be studying units on the Whole Number: Properties and Patterns, Geometry: Polygons, Solids and Transformations, Fractions and Percentages, and will finish off with Algebra: Concepts and Language. The semester 1 assignment will be an investigation focusing on the geometric features of circles. 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:

- 7.267 - Makes the connections between whole numbers and index notation and the relationship between perfect squares and square roots
- 7.268 - Solves problems involving percentages and all four operations with fractions and decimals
- 7.269 - Compares the cost of items to make financial decisions
- 7.278 - Uses fractions, decimals and percentages, and their equivalences
- 7.279 - Expresses one quantity as a fraction or percentage of another
- 7.281 - Assigns ordered pairs to given points on the Cartesian plane
- 7.274 - Represents transformations in the Cartesian plane
- 7.283 - Classifies triangles and quadrilaterals
- 7.284 - Names the types of angles formed by a transversal crossing parallel line
- 7.270 - Represents numbers using variables
- 7.271 - Connects the laws and properties for numbers to algebra
- 7.273 - Describes different views of three-dimensional objects
- 7.275 - Solves simple numerical problems involving angles formed by a transversal crossing two lines
- 7.280 - Solves simple linear equations and evaluates algebraic expressions after numerical substitution

### Assessment Tasks

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

| Task  | Week Due*      |
|---|----------------|
| Whole Number: Properties and Patterns Test          | Term 1, Week 5 |
| Geometry: Polygons, Solids and Transformations Test | Term 1, Week 9 |
| Semester 1 Assignment                               | Term 2, Week 2 |
| Fractions and Percentages Test                      | Term 2, Week 5 |
| Algebra: Concepts and Language Test                 | Term 2, Week 8 |

\*Due dates are an estimate only

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