

Year 7 Mathematics Semester 1

UNIT GOALS

The specific goals of this unit are for students to:

- To apply the associative, commutative and distributive laws to aid mental and written computation
- To identify corresponding, alternate and co-interior angles when two parallel straight lines are crossed by a transversal
- To investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning
- To investigate index notation and represent whole numbers as products of powers of prime numbers
- To investigate and use square roots of perfect square numbers
- To plot points on the Cartesian plane, and find coordinates for a given point
- To introduce the concept of variables as a way of representing numbers using letters
- To create algebraic expressions and evaluate them by substituting a given value for each variable
- To extend and apply the laws and properties of arithmetic to algebraic terms and expressions

UNIT OVERVIEW

Topic 1: Whole numbers

- Number and Algebra: Number and place value

Topic 2: Geometry

- Measurement and Geometry: Geometric reasoning

Topic 3: Number properties and patterns

- Number and Algebra: Number and place value
- Number and Algebra: Linear and non-linear relationships

Topic 4: Algebra

- Number and Algebra: Patterns and algebra

ASSESSMENT DETAILS

	Assessment Task	Week Due
Term 1		
AT1	Test	Week 4
AT2	Assignment	Week 8
Term 2		
AT3	Assignment	Week 4
AT4	Test	Week 8
