



STUDY GUIDE

Year 9 Mathematics

TERM 4

Assessment

A task
Mental computation
End of Term Test

7th week of Term
Last week of Term
Last week of Term

Chapter	Strand Sub-Strand	Content Description
Coordinate Geometry Chapter 16 (2 weeks)	Number & Algebra Linear and Non-linear Relationships	<ul style="list-style-type: none"> ★ Find the distance between two points located on a Cartesian plane using a range of strategies, including graphing software ★ investigating graphical and algebraic techniques for finding distance ★ Find the midpoint and gradient of a line segment (interval) on the Cartesian plane using a range of strategies, including graphing software ★ investigating graphical and algebraic techniques for finding midpoint and gradient
Trigonometry 2 Chapter 17 (2 weeks)	Measurement & Geometry Pythagoras and Trigonometry	<ul style="list-style-type: none"> ★ Use similarity to investigate the constancy of the sine, cosine and tangent ratios for a given angle in right-angled triangles ★ developing understanding of the relationship between the corresponding sides of similar right-angled triangles ★ Apply trigonometry to solve right-angled triangle problems ★ understanding the terms ‘adjacent’ and ‘opposite’ sides in a right-angled triangle ★ selecting and accurately using the correct trigonometric ratio to find unknown sides (adjacent, opposite and hypotenuse) and angles in right-angled triangles
Algebra 2 Chapter 18 (2 weeks)	Number & Algebra Patterns and Algebra	<ul style="list-style-type: none"> ★ Apply the distributive law to the expansion of algebraic expressions, including binomials, and collect like terms where appropriate ★ understanding that the distributive law can be applied to algebraic expressions as well as numbers, and understanding the inverse relationship between expansion and factorisation
Probability 2 Chapter 19 (2 weeks)	Statistics & Probability Chance	<ul style="list-style-type: none"> ★ Investigate reports of surveys in digital media and elsewhere for information on how data were obtained to estimate population means and medians ★ investigating a range of data and its sources, for example the age of residents in Australia, Cambodia and Tonga; the number of subjects studied at school in a year by 14-year-old students in Australia, Japan and Timor-Leste ★ Investigate techniques for collecting data, including census, sampling and observation
Review Chapter 20 (2 weeks)	All of above	All of above