



STUDY GUIDE

Year 10A 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 and Algebra Linear & Non-linear Relationships	<ul style="list-style-type: none"> ★ Solve problems involving parallel and perpendicular lines. ★ Explore the connection between algebraic and graphical representations of relations such as simple quadratics and circles using digital technology as appropriate.
Geometric Reasoning Chapter 17 (2 weeks)	Measurement & Geometry Geometric Reasoning	<ul style="list-style-type: none"> ★ Formulate proofs involving congruent triangles and angle properties. ★ Apply logical reasoning, including the use of congruence and similarity, to proofs and numerical exercises involving plane shapes. ★ Prove and apply angle and chord properties of circles.
Statistics 2 Chapter 18 (2 weeks)	Statistics & Probability Data Representation & Interpretation	<ul style="list-style-type: none"> ★ Use scatter plots to investigate and comment on relationships between two numerical variables. ★ Investigate and describe bivariate numerical data where the independent variable is time. ★ Evaluate statistical reports in the media and other places by linking claims to displays, statistics and representative data. ★ Use information technologies to investigate bivariate numerical data sets. Where appropriate use a straight line to describe the relationship allowing for variation.
Trigonometry 2 Chapter 19 (2 weeks)	Measurement & Geometry Pythagoras & Trigonometry	<ul style="list-style-type: none"> ★ Establish the sine, cosine and area rules for any triangle and solve related problems. ★ Use the unit circle to define trigonometric functions, and graph them with and without the use of digital technologies. ★ Solve simple trigonometric equations. ★ Apply Pythagoras' theorem and trigonometry to solving three-dimensional problems in right-angled triangles.
Review Chapter 20 (2 weeks)	All of above	All of above