

STUDY GUIDE

Year 9 Mathematics

TERM 2

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
Proportion Chapter 6 (2 weeks)	Number and Algebra Real Numbers	 ★ Solve problems involving direct proportion. ★ Explore the relationship between graphs and equations corresponding to simple rate problems. ★ Understand the difference between direct and inverse proportion, identifying these in real-life contexts and using these relationships to solve problems.
Pythagoras' Theorem Chapter 7 (2 weeks)	Measurement & Geometry Pythagoras & trigonometry	 ★ Investigate Pythagoras' Theorem and its application to solving simple problems involving right-angled triangles. ★ Understand that Pythagoras' Theorem is a useful tool in determining unknown lengths in right-angled triangles and has widespread applications. ★ Recognise that right-angled triangle calculations may generate results that can be integral, fractional or irrational numbers known as surds.
Geometry Chapter 8 (2 weeks)	Measurement and Geometry Geometric Reasoning	 ★ Use the enlargement transformation to explain similarity and develop the conditions for triangles to be similar. ★ Solve problems using ratio and scale factors in similar figures.
Statistics Chapter 9 (2 weeks)	Statistics and Probability Data Representation and Interpretation	 ★ Identify everyday questions and issues involving at least one numerical and at least one categorical variable, and collect data directly from secondary sources. ★ Construct back-to-back stem-and-leaf plots and histograms and describe data, using terms including 'skewed', 'symmetric' and 'bi modal'. ★ Compare data displays using mean, median and range to describe and interpret numerical data sets in terms of location (centre) and spread.
Review Chapter 10 (2 weeks)	All of above	All of above