



STUDY GUIDE

Year 8 Mathematics

TERM 3

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
Ratio & Rate Chapter 11 (2 weeks)	Number and Algebra Real Numbers	<ul style="list-style-type: none"> ★ Use percentages to solve problems, including those involving mark-ups, discounts, profit and loss and GST. ★ Express profit and loss as a percentage of cost or selling price, compare the difference. ★ Investigate the methods used in retail stores to express discounts. ★ Solve a range of problems involving rates and ratios, with and without digital technologies ★ Understand that rate and ratio problems can be solved using fractions or percentages and choosing the most efficient form to solve a particular problem. ★ Calculate population rates in Australia and Asia and explain their difference.
Linear Equations Chapter 12 (2 weeks)	Number and Algebra Linear and Non-linear Relationships	<ul style="list-style-type: none"> ★ Solve linear equations using algebraic and graphical techniques. ★ Use variables to symbolise simple linear equations and use a variety of strategies to solve them. ★ Solve equations using concrete materials, such as the balance model, and explain the need to do the same thing to each side of the equation.
Data Chapter 13 (2 weeks)	Statistics and Probability Data Representation and Interpretation	<ul style="list-style-type: none"> ★ Explore the practicalities and implications of obtaining representative data. ★ Understand that making decisions and drawing conclusions based on data may differ from those based on preferences and beliefs. ★ Explore the variation of means and proportions in representative data. ★ Investigate an international issue where media reporting and the use of data reflects different cultural or social emphases. ★ Use sample properties to predict characteristics of the population.
Time Chapter 14 (2 weeks)	Measurement & Geometry Using Units of Measurement	<ul style="list-style-type: none"> ★ Solve problems involving duration, including using 12-hour and 24-hour time within a single time zone. ★ Calculate travel times given the start and finish time in 12-hour and 24-hour time including where the start and end time are in different time zones. ★ Identify regions in Australia and countries in Asia that are in the same time zone.
Review Chapter 15 (2 weeks)	All of above	All of above