



STUDY GUIDE

Year 9 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
Indices 2 Chapter 11 (2 weeks)	Number & Algebra Real Numbers Measurement & Geometry Using Units of Measurement	<ul style="list-style-type: none"> ★ Express numbers in scientific notation ★ understanding that the use of index notation is an efficient way of representing numbers and symbols and has many applications, particularly in science ★ representing extremely large and small numbers in scientific notation, and numbers expressed in scientific notation as whole numbers or decimals ★ Investigate very small and very large time scales and intervals ★ investigating the usefulness of scientific notation in representing very large and very small numbers
Trigonometry 1 Chapter 12 (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
Volume Chapter 13 (2 weeks)	Measurement & Geometry Using Units of Measurement	<ul style="list-style-type: none"> ★ Calculate the volume of cylinders and solve related problems ★ Solve problems involving the volume of right prisms ★ building on the understanding of volume to become fluent with calculation, and identifying that volume relationships are used in the workplace and everyday life
Probability 1 Chapter 14 (2 weeks)	Statistics & Probability Chance	<ul style="list-style-type: none"> ★ List all outcomes for two-step chance experiments, both with and without replacement using tree diagrams or arrays. Assign probabilities to outcomes and determine probabilities for events ★ Calculate relative frequencies from given or collected data to estimate probabilities of events involving 'and' or 'or' ★ posing 'and', 'or', 'not' and 'given' probability questions about objects or people ★ collecting data to answer the questions using Venn diagrams or two-way tables
Review Chapter 15 (2 weeks)	All of above	All of above