



# STUDY GUIDE

## Year 10A 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
<b>Quadratics</b> Chapter 6 (2 weeks)	<b>Number and Algebra</b> Patterns and Algebra	<ul style="list-style-type: none"> <li>★ Expand binomial products and factorise monic quadratic expressions using a variety of strategies.</li> </ul>
<b>Solving Equations</b> Chapter 7 (2 weeks)	<b>Number and Algebra</b> Linear & Non-linear Relationships	<ul style="list-style-type: none"> <li>★ Solve linear equations involving simple algebraic fractions.</li> <li>★ Solve simple quadratic equations using a range of strategies.</li> </ul>
<b>Chance</b> Chapter 8 (2 weeks)	<b>Statistics &amp; Probability</b> Chance	<ul style="list-style-type: none"> <li>★ Describe the results of two- and three-step chance experiments, both with and without replacements, assign probabilities to outcomes and determine probabilities of events. Investigate the concept of independence.</li> <li>★ Use the language of ‘if ....then’, ‘given’, ‘of’, ‘knowing that’ to investigate conditional statements and identify common mistakes in interpreting such language.</li> <li>★ Investigate reports of studies in digital media and elsewhere for information on their planning and implementation.</li> </ul>
<b>Polynomials</b> Chapter 9 (2 weeks)	<b>Number and Algebra</b> Patterns & Algebra	<ul style="list-style-type: none"> <li>★ Investigate the concept of a polynomial and apply the factor and remainder theorems to solve problems:</li> </ul>
<b>Review</b> Chapter 10 (2 weeks)	All of above	All of above