



# STUDY GUIDE

## Year 8 Mathematics

## TERM 1

### 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>Index Laws</b> Chapter 1 (2 weeks)	Number and Algebra <b>Number and place value</b>	<ul style="list-style-type: none"><li>★ Use index notation with numbers to establish the index laws with positive integral indices and the zero index.</li><li>★ Evaluate numbers expressed as powers of positive integers.</li></ul>
<b>Integers</b> Chapter 2 (2 weeks)	Number and Algebra <b>Integers</b>	<ul style="list-style-type: none"><li>★ Carry out the four operations with integers.</li><li>★ Use efficient mental and written strategies.</li><li>★ Use appropriate digital technologies.</li></ul>
<b>Algebra</b> Chapter 3 (2 weeks)	Number and Algebra <b>Patterns and Algebra</b>	<ul style="list-style-type: none"><li>★ Extend and apply the distributive law to the expansion of algebraic expressions.</li><li>★ Factorise algebraic expressions by identifying (highest common factor) of numeric and algebraic expressions.</li><li>★ Simplify algebraic expressions involving the four operations.</li></ul>
<b>Probability</b> Chapter 4 (2 weeks)	Statistics and Probability <b>Chance</b>	<ul style="list-style-type: none"><li>★ Understand that probabilities range between 0 to 1.</li><li>★ Identify complementary events.</li><li>★ Identify the complement of familiar events.</li><li>★ Use the sum of probabilities to solve problems.</li></ul>
<b>Review</b> Chapter 5 (2 weeks)	All of above	All of above