



# STUDY GUIDE

## Year 8 Mathematics

## TERM 4

### 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>Linear Relationships</b> Chapter 16 (2 weeks)	Number and Algebra <b>Linear and Non-linear Relationships</b>	<ul style="list-style-type: none"> <li>★ Plot linear relationships on the Cartesian plane.</li> <li>★ Plot points for tables of values from non-rule-based data.</li> <li>★ Solve linear equations using algebraic and graphical techniques.</li> <li>★ Use variables to symbolise simple linear equations.</li> </ul>
<b>Measurement</b> Chapter 17 (2 weeks)	Measurement & Geometry <b>Using Units of Measurement</b>	<ul style="list-style-type: none"> <li>★ Find perimeters and areas of parallelograms, rhombuses and kites.</li> <li>★ Explore the use of parallelograms, rhombuses and kites in art and architecture.</li> <li>★ Develop the formulas for volumes of rectangular and triangular prisms and prisms in general.</li> <li>★ Use formulas to solve problems involving volume.</li> <li>★ Investigate the relationship between volumes of rectangular and triangular prisms.</li> </ul>
<b>Probability</b> Chapter 18 (2 weeks)	Statistics and Probability <b>Chance</b>	<ul style="list-style-type: none"> <li>★ Understand that representing data in Venn diagrams or two-way tables facilitates the calculation of probabilities.</li> <li>★ Use Venn diagrams and two-way tables to calculate probabilities for events satisfying 'and', 'or', 'given' and 'not' conditions.</li> <li>★ Pose 'and', 'or', 'not' and 'given' probability questions about objects or people.</li> <li>★ Collect data to answer the questions using Venn diagrams or two-way tables.</li> </ul>
<b>Congruence</b> Chapter 19 (2 weeks)	Measurement & Geometry <b>Geometric Reasoning</b>	<ul style="list-style-type: none"> <li>★ Develop the conditions for congruence of triangles.</li> <li>★ Construct triangles using the conditions for congruence.</li> <li>★ Solve problems using the properties of congruent figures.</li> <li>★ Establish of the conditions for congruence (SSS, SAS, ASA and RHS) to solve problems.</li> <li>★ Establish the properties of squares, rectangles, parallelograms, rhombuses, trapeziums and kites.</li> </ul>
<b>Review</b> Chapter 20 (2 weeks)	All of above	All of above