STUDY GUIDE

Year 8 Mathematics TERM 2

Assessment

A task	7th week of Term
Mental computation	Last week of Term
End of Term Test	Last week of Term

Chapter	Strand Sub-Strand	Content Description
Real Numbers Chapter 6 (2 weeks)	Number and Algebra **Real Numbers**	★ Recognise terminating, recurring and non-terminating decimals and choose their appropriate representations. ★ Investigate the concept of irrational numbers, including π. ★ Understand that the real number system includes irrational numbers and that certain subsets of the real number system have particular properties.
Congruence Chapter 7 (2 weeks)	Measurement and Geometry **Congruence**	★ Two figures are congruent if one shape lies exactly on top of the other after one or more transformations (translation, reflection, rotation). ★ Solve problems using properties of congruent figures, justifying reasoning and making generalisations. ★ The minimal conditions for congruence (SSS, SAS, ASA and RHS) and the conditions that do not prescribe congruence (ASS, AAA). ★ Plot the vertices of two-dimensional shapes on the Cartesian plane, translating, rotating or reflecting the shape and using coordinates to describe the transformation.
Data Chapter 8 (2 weeks)	Statistics and Probability **Data Representation and Interpretation**	★ Use sample properties to predict characteristics of the population. ★ Use displays of data to explore and investigate effects. ★ 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. ★ Investigate the effect of individual data values, including outliers, on the mean and median.
Circles Chapter 9 (2 weeks)	Measurement and Geometry **Using Units of Measurement**	★ Investigate the relationship between features of circles such as circumference, area, radius and diameter. ★ Use formulas to solve problems involving circumference and area. ★ Investigate the circumference and area of circles with materials or by measuring, to establish an understanding of formulas. ★ Investigate the area of circles using a square grid or by rearranging a circle divided into sectors.
Review Chapter 10 (2 weeks)	All of above	All of above