STUDY GUIDE

Year 7 Mathematics TERM 3

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
Number 3 Chapter 11 (2 weeks)	Number and Algebra **Number & Place Value**	★ Investigate index notation. ★ Represent whole numbers as products of powers of prime numbers. ★ Define and compare prime and composite numbers. ★ Express whole numbers as products of powers of prime factors (factor trees). ★ Solve problems involving lowest common multiples and greatest common divisors (highest common factors). ★ Investigate square numbers such as 25 and 36 and developing square-root notation. ★ Investigate between which two whole numbers a square root lies.
Linear Equations Chapter 12 (2 weeks)	Number and Algebra **Linear & Non-linear Relationships**	★ Solve equations (use the balance model and explain the need to do the same thing to each side of the equation). ★ Use strategies such as backtracking and guess, check and improve to solve equations. ★ Use substitution to check solutions. ★ Solve real life problems. ★ Create linear relationships to represent realistic situations.
Geometry Chapter 13 (2 weeks)	Measurement & Geometry **Geometric Reasoning**	★ Define and classifying angles such as acute, right, obtuse, straight, reflex and revolution, and pairs of angles such as complementary, supplementary, adjacent and vertically opposite. ★ Construct parallel and perpendicular lines. ★ Define and identify alternate, corresponding and allied angles and the relationships between them for a pair of parallel lines. ★ Identify side and angle properties of scalene, isosceles, right-angled and obtuse-angled triangles. ★ Describe squares, rectangles, rhombuses, parallelograms, kites and trapeziums. ★ Use concrete materials and digital technologies to investigate the angle sum of a triangle and quadrilateral.
Data 1 Chapter 14 (2 weeks)	Statistics & Probability **Data Representation & Interpretation**	★ Calculate mean, median, mode and range for sets of data. ★ Use ordered stem-and-leaf plots to record and display numerical data. ★ Use mean and median to compare data sets and explain how outliers may affect the comparison. ★ Locate mean, median and range on graphs and connect them to real life.
Review Chapter 15 (2 weeks)	All of above	All of above