Year 8 Mathematics Scope and Sequence 2021

	Semester 1					
	DATA DRIVEN FOCUS AREAS					
Topic	Algebraic Techniques 2 **MA4-8NA**	Equations 2 **MA4-10NA**	Operations with Number **MA4-5NA**	Right Angled Triangles (Pythagoras) **MA4-16MG**	Properties of 2D figures **MA4-17MG**	Financial Mathematics **MA4-6NA**
Time	Wk 1-4	Wk 5-7	Wk 8-10	Wk 1-3	Wk 4-7	Wk 8-10
Concepts	Generalises number properties to operate with algebraic expressions	Using algebraic techniques to solve simple linear and quadratic equations	Performs operations with Fractions, Decimals and Percentages	Uses Pythagoras Theorem to solve problems	Classifies, describes and uses the properties of triangles and quadrilaterals	Solves financial problems involving purchasing goods
Topic assessment		Rich task – Developing understanding through reverse process	Catalogue assignment	Literacy task- investigation of the origins of Pythagoras Theorem	Mind map of quadrilateral properties	Best Buys investigation
Assessment Tasks - Major	**Assessment Task 1 -Open Book Examination** Notice: Term 1, Week 6 Due: Term 1, Week 8			**Assessment Task 2- Summary Sheet Examination** Notice Term 2 Week 7 Due Term 2 Week 9		
Revision Excel Book	Chapter 6	Chapter 11	Chapter 2 and 3	Chapter 7 unit 4/5	Chapter 12	Chapter 2 and teacher supplied

Year 8 Mathematics Scope and Sequence 2021

Semester 2						
DATA DRIVEN FOCUS AREAS						
Topic	Length, Area and Volume **MA4-12MG, MA4-13MG, MA4-14MG**	Ratio and Rates **MA4-7NA**	Congruency **MA4-17MG**	Linear Relationships **MA4-11NA**	Indices **MA4-9NA**	Data and Single Variable Analysis **MA4-19SP, MA4-20SP**
Time	Wk 1-6	Wk 7-10	Wk 1-2	Wk 3-5	Wk 6-7	Wk 8-10
Concepts	Calculates the perimeter, Area and Volume of 2D and 3D figures.	Operates with ratios and rates and explores their graphical representation	Determines congruent triangles to find unknown side lengths and angles.	Creates and displays number patterns; graphs and analyses linear relationships; and performs transformations on the Cartesian plane	Operates with positive-integer and zero indices of numerical bases	Collects, represents and interprets single sets of data, using appropriate statistical displays Analyses single sets of data using measures of location, and range
Topic Test/rich task				Design a list of coordinates to create a diagram/picture		Utilise technology to investigate local statistics & present findings graphically& in tables
Assessment Tasks - Major	**Assessment Task 3 – Measurement Assignment** Notice: Term 3, Week 8 Due: Term 3, Week 10		**Assessment Task 4 – Summary Sheet Examination** Notice Term 4 Week 6 Due Term 4 Week 8			
Revision Excel Book	Chapter8 and 9	Chapter 5 (unit 6-9)	Chapter 12 (Units 7-13)	Chapter 10	Chapter 4	Chapter 14