Year 9 Mathematics Scope and Sequence 2021

Semester 1					
Data driven focus areas.					
5.3	Right-Angled Triangles (Trigonometry) MA5.1-13MG	Volume MA5.3-14MG		Surds MA5.3-6NA	Logarithms MA5.3-11NA
5.2	Right Angled Triangles (Trigonometry) MA5.1-10MG	Volume MA5.2-12MG		Indices MA5.2-7NA	
5.1		Area and Surface Area MA5.1-8MG	Financial Mathematics MA5.1-4NA	Indices MA5.1-5NA	Numbers of any Magnitude MA5.1-9MG
Time	**Wks 1-6**	**Wks 7-10**	**Wks 1-5**	**Wks 6-8**	**Wk 9-10**
Concepts	Applies trigonometry to solve problems, including problems involving bearings. Applies trigonometry, given diagrams, to solve problems, including problems involving angles of elevation and depression.	Applies formulas to find the volumes of right pyramids, right cones, spheres and related composites solids. Applies formulas to calculate the volumes of composite solids composed of right prisms and cylinders. Calculates the areas of composite shapes, and the surface area of rectangular and triangular prisms.	*Earning Money and Taxation Only* Solves financial problems involving earning, spending and investing money.	Performs operations with surds and indices. Applies index laws to operate with algebraic expressions involving integer indices. Operates with algebraic expressions involving positive-integer and zero indices, and establishes the meaning of negative indices for numerical bases	Interprets very small and very large units of measurement, uses scientific notation, and rounds to significant figures Uses the definition of a logarithm to establish and apply the laws of logarithms
Assessment Tasks - Major	**Assessment Task 1 – Formula Sheet Examination** Notice Term 1 Week 7 Due Term 1 Week 9		**Assessment Task 2 – Examination** Notice Term 2 Week 6 Due Term 2 Week 8		
Revision Excel Book	Chapter 10	Chapter 13	Teacher supplied	Chapter 3	Chapter 6

Year 9 Mathematics Scope and Sequence 2021

Semester 2				
Data driven focus areas.				
5.3		Algebraic Techniques MA5.3-5NA	Harder Equations MA5.3-7NA	
5.2	Linear Relationships MA5.2-9NA	Algebraic Techniques MA5.2-6NA	Harder Equations MA5.2-8NA	Financial Mathematics MA5.2-4NA
5.1	Linear Relationships MA5.1-6NA			Financial Mathematics MA5.1-4NA
4		Algebraic Techniques MA4-8NA	Revise Equations MA4-10NA	
Time	**Wk 1-6**	**Wks 7-10**	**Wks 1-6**	**Wks 7-10**
Concepts	Uses the gradient-intercept form to interpret and graph linear relationships. Determines the midpoint, gradient and length of an interval, and graphs linear relationships.	Selects and applies appropriate algebraic techniques to operate with algebraic expressions. Simplifies algebraic fractions, and expands and factorises quadratic expressions.	Uses algebraic techniques to solve simple linear and quadratic equations.	Solves financial problems involving compound interest. *Compound and Simple Interest Part 2 - 5.1* Solves financial problems involving earning, spending and investing money.
Assessment Tasks - Major	**Assessment Task 3 – Investigation Assignment** Notice Term 3 Week 7 Due Term 3 Week 9		**Assessment Task 4 –Examination** Notice Term 4 Week 6 Due Term 4 Week 8	
Revision – Excel Book	Chapter 8	Chapter 2	Chapter 9	Chapter 5