Year 10 HPG Maths Scope and Sequence 2021

	Semester 1			
5.3	Equations MA5.3-7NA	Surds MA5.3-6NA	Logarithms MA5.3-11NA	Trigonometry MA5.3-15MG
Time	Weeks 1-7	Weeks 8-10	Weeks 1-3	Weeks 4-10
Concepts	Solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques	Performs operations with surds and indices.	Uses the definition of a logarithm to establish and apply the laws of logarithms	Applies Pythagoras' theorem, trigonometry relationships, the sine rule, the cosine rule and the area rule to solve problems, including problems involving three dimensions
Assessment Tasks - Major	**Assessment Task 1 – Examination with summary sheet** Notice: Term 1, Week 8 Due: Term 1, Week 10		**Assessment Task 2 – Question Bank Examination with Reference Sheet** Notice: Term 2, Week 5 Due: Term 2, Week 7	
Revision Excel book	Chapter 2	Chapter 1	Chapter 4 Units 1-6	Chapter 7

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	Semester 2				
5.3	Polynomials MA5.3-10NA	Functions and other graphs MA5.3-12NA	Graphs of Physical Phenomena MA5.3-4NA	Stage 5 Revision	Stage 5.3 Revision
Time	Weeks 1-4	Weeks 5-8	Weeks 9-10	Weeks 1-4	Weeks 6-10
Concepts	Recognises, describes and sketches polynomials, and applies the factor and remainder theorems to solve problems	Uses function notation to describe and sketch functions	Draws, interprets and analysis graphs of physical phenomena	Revision as needed of Stage 5.1, 5.2 and 5.3 concepts. E.g. Financial, Area, Volume, Data, Probability, Trigonometry, Equations	Revision of Stage 5.3 concepts to prepare for the study of Mathematics Advanced in Preliminary Course
Assessment Tasks - Major	**Assessment Task 3 – Conceptual Task** Notice Term 3 Week 6 Due Term 3 Week 8			**Assessment Task 4 – Yearly Exam** Notice Via Exam timetable Due Term 4 Week 5	
Revision Excel Book	Chapter 5	Chapter 3 Chapter 4 Units 7-8			