Key Stage 5 Curriculum Map Mathematics Year 13 Pure Mathematics

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit Title(s)	Functions and modelling Trigonometry	Parametric equations Differentiation	The binomial theorem Integration	Vectors (3D) Series and sequences	Numerical methods	**Formal Examinations**
Overview	Review Y12 work: chapters 1 & 2 Chapter 5: Radians Chapter 6: Trigonometric Functions Chapter 7: Trigonometric Modelling	Chapter 8: Parametric Equations Chapter 9: Differentiation	Chapter 4: Binomial expansion Chapter 11: Integrations	Chapter 12: Vectors Chapter 3: Sequences and series	Chapter 10: Numerical Methods ***Revision for EoY examinations***	
Iterative Links	Use the prior knowledge checkers at the beginning of each chapter to make links to previous learning. **Real world applications are highlighted at the beginning of each chapter.**	Use the prior knowledge checkers at the beginning of each chapter to make links to previous learning. **Real world applications are highlighted at the beginning of each chapter.**	Use the prior knowledge checkers at the beginning of each chapter ***Link the binomial expansion with partial fractions for integration.*** ***Link integration to trig identities*** **Real world applications are highlighted at the beginning of each chapter.**	Use the prior knowledge checkers at the beginning of each chapter to make links to previous learning. ***Focus on links to mechanics and FM Volume of revolution/series*** **Real world applications are highlighted at the beginning of each chapter.**	Use the prior knowledge checkers at the beginning of each chapter to make links to previous learning. **Real world applications are highlighted at the beginning of each chapter.**	
Knowledge & Understanding	Use the list of objectives at the start of each chapter in conjunction with the PLCs.	Use the student booklets in conjunction with the Dr Frost PowerPoints. Regularly assess using past paper questions.	Use the student booklets in conjunction with the Dr Frost PowerPoints. Regularly assess using past paper questions.	Use the student booklets in conjunction with the Dr Frost PowerPoints. Regularly assess using past paper questions.	Use the student booklets in conjunction with the Dr Frost PowerPoints. Regularly assess using past paper questions.	
Skills	Mathematical argument, language and proof. Mathematical problem solving. Mathematical modelling.	Mathematical argument, language and proof. Mathematical problem solving. Mathematical modelling.	Mathematical argument, language and proof. Mathematical problem solving. Mathematical modelling.	Mathematical argument, language and proof. Mathematical problem solving. Mathematical modelling.	Mathematical argument, language and proof. Mathematical problem solving. Mathematical modelling.	
Literacy	See key words at the end of each chapter-***summary of key points***.	See key words at the end of each chapter-***summary of key points***.	See key words at the end of each chapter-***summary of key points***.	See key words at the end of each chapter-***summary of key points***.	See key words at the end of each chapter-***summary of key points***.	
Numeracy	Embedded throughout	Embedded throughout	Embedded throughout	Embedded throughout	Embedded throughout	
Assessment	End of block assessments (Topic Tests) for each overview topic. Summative assessment Aut 1 and Aut 2. Mock examination Spring 1 and final assessment Spring 2.	End of block assessments (Topic Tests) for each overview topic. Summative assessment Aut 1 and Aut 2. Mock examination Spring 1 and final assessment Spring 2.	End of block assessments (Topic Tests) for each overview topic. Summative assessment Aut 1 and Aut 2. Mock examination Spring 1 and final assessment Spring 2.	End of block assessments (Topic Tests) for each overview topic. Summative assessment Aut 1 and Aut 2. Mock examination Spring 1 and final assessment Spring 2.	End of block assessments (Topic Tests) for each overview topic. Summative assessment Aut 1 and Aut 2. Mock examination Spring 1 and final assessment Spring 2.	
Cross-curricular	Science	Science	Science	Science	Science	Science