

Curriculum Sequencing Grid: Y11 Maths

Year 11 (Higher)	Term 1	Term 2	Term 3
<b>Unit</b> (Tablet in 39 week plan)	Geometry - Sine & Cosine Rules, Circle Theorems Algebra - Numerical Methods, Rates of Change, Graphs	Revision – Revision Booklets covering entire KS4 specification. One week per topic. Past Papers and Walking Talking Mocks every other week. Revision Plans bespoke to each pupil. Achieve sessions used to target key skills and areas to develop	Revision – Intensive personalised revision and Achieve sessions. Between each paper targeted sessions on topics not yet covered GCSE Examinations
<b>Key Retainable Knowledge</b> (Required for Y11/13) <ul style="list-style-type: none"> <li>What... How.... Why....</li> </ul>	Building on previous Trigonometry and Geometry units to aim for successes in high level Circle Theorem & Trigonometry questions Numerical methods builds a range of strategies for solving equations and further develops the use of and familiarity with calculators. Rates of change using graphs aims to develop the understanding of vectors seen earlier in KS4, but also in Science. The topic also gives brief experiences of topics seen at KS5, to foster a love of discovery of Mechanical and Pure Maths.	All GCSE Specification content to be covered. Revision booklets that build from the basics and contain exam questions. These are linked to Hegarty Maths to enable further study on each topic from the pupils.	
<b>Key Technical Vocabulary</b> (To be modelled and deliberately practiced in context.)	Exam vocabulary, what is the question asking you? How can I make this question easier for myself? Command words: Show, prove, evaluate, calculate, find, hence, are used as the norm in lessons. All students will develop confidence and competence with the content identified in the scheme of work. All students will be assessed on the content identified by the specification; more highly attaining students will develop confidence and competence with all content		
<b>Opportunities for Reading</b>	Students directed to additional study/reading. Y11 Core Revision Evening targeted this additional study at four key websites PinPoint, Hegarty, Corbett and Mr Barton. Students and parents have been directed to use the Revision guide and Exam question booklets in unison (also with Hegarty & PinPoint) in their additional study.		
<b>Developing Cultural Capital</b>	Contextualised questions, regular problem solving activities and active learning tasks		
<b>Cross Curricular Links</b> (Authentic Connections)	Gradients, Rates of Change and Area Under a curve is link heavily to GCSE Physics (Combined & Triple Spec). Use of Physics GCSE questions and skills such as formula recall, substitution & graph plotting	By working through problem solving in an appropriate way, we aim to develop strategies and also provide an experience of problems that have been solved using them. Problem solving resources and techniques enable both the recognition of similar problems in the future, and the development of confidence in a set of actions that can lead to problem resolution.	
<b>Key Assessment</b>	End of unit tests that build on the basics covered in Y9/10 and assessment previous knowledge & new content. Learning Cycle Assessments – Cumulative Past Papers completed in lessons every two weeks. Students will complete two full GCSE sets in this term. CTG from PinPoint. Walking Talking Mocks – Every fortnight this mock is undertaken in exam conditions, in the exam setting. Time given for pupils to attempt each question and then teacher talks through each questions, focusing on where marks could be picked up and varying techniques.	Learning Cycle Assessments – Cumulative Past Papers completed in lessons every two weeks. Students will complete two full GCSE sets in this term. CTG from PinPoint. Walking Talking Mocks – Every fortnight this mock is undertaken in exam conditions, in the exam setting. Time given for pupils to attempt each question and then teacher talks through each questions, focusing on where marks could be picked up and varying techniques. Live Trials – Full set of GCSE (Nov 2019), exam setting. CTG on each paper using PinPoint	

Curriculum Sequencing Grid: Y11 Maths

Year 11 (Foundation)	Term 1	Term 2	Term 3
<b>Unit</b> (Tablet in 39 week plan)	Ratio – Ratio & Proportion, Growth & Decay Geometry – Vectors, Trigonometry Algebra – Solving Quadratic Equations	Revision – Revision Booklets covering entire KS4 specification. One week per topic. Past Papers and Walking Talking Mocks every other week. Revision Plans bespoke to each pupil. Achieve sessions used to target key skills and areas to develop	Revision – Intensive personalised revision and Achieve sessions. Between each paper targeted sessions on topics not yet covered GCSE Examinations
<b>Key Retainable Knowledge</b> (Required for Y11/13) <ul style="list-style-type: none"> <li>What... How.... Why....</li> </ul>	Building on previous Trigonometry units to aim for successes in more complex questions 7 problems. Vectors link to transformations and furthers pupils' understanding Understanding of ratio & proportion is crucial to success within GCSE Maths, this is covered every year in the SOW.	All GCSE Specification content to be covered. Revision booklets that build from the basics and contain exam questions. These are linked to Hegarty Maths to enable further study on each topic from the pupils.	
<b>Key Technical Vocabulary</b> (To be modelled and deliberately practiced in context.)	Exam vocabulary, what is the question asking you? How can I make this question easier for myself? Command words: Show, prove, evaluate, calculate, find, hence, are used as the norm in lessons. All students will develop confidence and competence with the content identified in the scheme of work. All students will be assessed on the content identified by the specification; more highly attaining students will develop confidence and competence with all content		
<b>Opportunities for Reading</b>	Students directed to additional study/reading. Y11 Core Revision Evening targeted this addition study at four key websites PinPoint, Hegarty, Corbett and Mr Barton. Students and parents have been directed to use the Revision guide and Exam question booklets in unison (also with Hegarty & PinPoint) in their additional study.		
<b>Developing Cultural Capital</b> (exposure to very best-essential knowledge and skills of educated citizens – appreciation of human creativity and achievement.)	Contextualised questions, regular problem solving activities and active learning tasks		
<b>Cross Curricular Links</b> (Authentic Connections)	Ratio and Growth & Decay are now embedded within the Science and Geography specifications. Use of Physics GCSE questions and skills such as formula recall, substitution & graph plotting with the Algebra topics	By working through problem solving in an appropriate way, we aim to develop strategies and also provide an experience of problems that have been solved using them. Problem solving resources and techniques enable both the recognition of similar problems in the future, and the development of confidence in a set of actions that can lead to problem resolution.	
<b>Key Assessment</b>	End of unit tests that build on the basics covered in Y9/10 and assessment previous knowledge & new content. Learning Cycle Assessments – Cumulative Past Papers completed in lessons every two weeks. Students will complete two full GCSE sets in this term. CTG from PinPoint. Walking Talking Mocks – Every fortnight this mock is undertaken in exam conditions, in the exam setting. Time given for pupils to attempt each question and then teacher talks through each questions, focusing on where marks could be picked up and varying techniques. Live Trials – Full set of GCSE (Jun 2019), exam setting. CTG on each paper using PinPoint	Learning Cycle Assessments – Cumulative Past Papers completed in lessons every two weeks. Students will complete two full GCSE sets in this term. CTG from PinPoint. Walking Talking Mocks – Every fortnight this mock is undertaken in exam conditions, in the exam setting. Time given for pupils to attempt each question and then teacher talks through each questions, focusing on where marks could be picked up and varying techniques. Live Trials – Full set of GCSE (Nov 2019), exam setting. CTG on each paper using PinPoint	