



Programme of Study – Year 11 Mathematics

	Theme	Overview of key learning to take place	How learning will be assessed
Term 1	<p>Chapter 6- Trigonometry</p> <p>Chapter 5- Algebra 2</p> <p>Chapter 8- Sets, Vectors, functions and transformation</p>	<p>Chapter 6: Trigonometry 6.3 I can solve 3D problems 6.4 I can find sin, cos, tan of any angle 6.5 I can apply the sine rule 6.6 I can apply the cosine rule</p> <p>Chapter 5: Algebra 2 5.1 I can solve Algebraic fractions 5.2 I can change the subject of the formula 5.3 I can construct and transform complicated formulae and equations 5.4 I can derive and solve simple Linear Inequalities 5.5 I can represent inequalities graphically and use this representation in the solution of simple linear programming problems</p> <p>Chapter 8: Sets, Vectors, Functions and Transformations 8.1 I can understand sets 8.2 I can solve logical problems using sets and venn diagrams 8.3 I can understand vectors 8.4 I can use column vectors 8.5 I can understand vector geometry 8.6 I can solve functions 8.7 I can identify and draw simple transformations 8.8 I can identify and draw combined transformations</p>	<p>Examples of Formative Assessment to be used this term: End of chapter Exam Questions Chapter 5 Quiz Exercise tasks</p> <p>2 Summative assessment Assessment to take place 2 times this term.</p> <p>Students will receive a mark for each assessment and personalised next steps for improvement</p>

Term 2	Chapter 7- Graphs	<p>Chapter 7 : Graphs</p> <p>7.5 I can interpret graphs 7.6 I can find graphical solution of Equations 7.7 I can draw and interpret distance-time graphs 7.8 I can draw and interpret speed time graphs 7.9 I can understand differentiation</p>	<p>Examples of Formative Assessment to be used this term: Question worksheets Exercise tasks</p> <p>Summative assessment Assessment to take place 2 times this term.</p> <p>Students will receive a mark for each assessment and personalised next steps for improvement</p>
	Chapter 9- Statistics	<p>Chapter 9: Statistics</p> <p>9.1 I can display data in a range of graphs 9.2 I can calculate averages 9.3 I can draw and interpret scatter graphs 9.4 I can draw box and whisker plots 9.5 I can draw cumulative frequency graphs 9.6 I can compare data using pie charts, cumulative frequency and box plots</p>	
	Chapter 10- Probability	<p>Chapter 10: Probability</p> <p>10.1 I can calculate simple probability 10.2 I understand and can use relative frequency 10.3 I can identify exclusive and independent events' 10.4 I can draw and use tree diagrams 10.5 I can calculate probability from Venn diagrams 10.6 I can understand conditional probability</p>	
Term 3	Revision and solving past paper questions	Revision and Préparation for End of year IGCSE exams	<p>IGCSE Topic tests (savemyexams) Past paper Questions</p> <p>Summative assessment Final examinations</p>