



Term 1	Term 2	Term 3	Working towards
<p>We will be following the GED Curriculum supported by Edexcel A-Level (C1 and C2) extended curriculum.</p> <p>Within these units we will learn:</p> <p>QUADRATIC EQUATIONS & FUNCTIONS (C1) Solving quadratic equations by. Factorising Quadratic formula Completing the square Sketching quadratic graphs. Max/Min Shape Turning point Nature of roots. Working with the discriminate INEQUALITIES & EQUATIONS Solving inequalities. Linear Quadratic Solving simultaneous equations. Linear One linear & one quadratic (algebraically and graphically) Intersection of linear & quadratic functions. Working with the discriminate EXPONENTS & LOGS Logarithms. Definition: log-exp Rules Special cases Exponential function. Graphs</p>	<p>Within these units we will learn:</p> <p>CO-ORDINATE GEOMETRY (C1 & C2)</p> <p>Revision. Coordinates, midpoint, gradient The length of a line segment joining two points Straight line. Gradient as $\tan\Phi$ Special cases for gradient (0, 1, -1, ∞) Parallel and perpendicular lines Equation of a line $y = mx + c$ Forms of equations of straight lines Sketching Applications: Advanced use of the previous knowledge.</p> <p>SOLVING TRIANGLES, RADIANS & APPLICATIONS Solutions of triangles. Sine, cosine area rule Radians: definition, exchange with degrees, Angles & quadrants, area and length of a sector/arc, special triangles, etc. Trigonometric functions for any angle. Sign, magnitude, special cases Graphs of trigonometric functions: $y = \sin x$, $\cos x$, $\tan x$ Transformation of the graphs: $y = \pm af(\pm x \pm A) \pm B$</p>	<p>Within these units we will learn:</p> <p>ALGEBRA (C1 & C2)</p> <p>Algebra and Functions. Identities Long division: Dividing a polynomial Remainder and Factor theorem Factorising polynomials Binomial expansion. Pascal's triangle Notation $n!$ and $\binom{n}{r}$ Formula for binomial expansion SEQUENCES & SERIES Arithmetic series. Definition The concepts: common difference, progression Formula for the nth term Advanced applications Formula for the sum of n terms Advanced applications Geometric series. Definition Concepts: common ratio, progression Formula for the nth term Advanced applications Formula for the sum of n terms Advanced applications</p>	<p>Practice with GED past papers. There will be two of these practical tests between September and December.</p> <p>Introduction of Mathematical language and meaning of symbols.</p>




Grade 11 Mathematics – We will be learning...

<p>Relationship between log and exp.</p> <p>Students will complete activities such as: Worksheets related to the topic and structured by levels of understanding Problem solving activities to deepen into their mathematical vocabulary as well as the application of Maths to different kinds of problems. At least one activity, text or problem related to real world skills. At least once a week starter related to previous topics to reinforce the memory.</p> <p>Teachers will use tasks to assess core module learning objectives and monitor progress. At the end of the unit students will complete an “Exit Point”, it means, a short assessment to help teachers evaluate student’s progress throughout the unit.</p> <p>The Final evaluation will be arithmetic mean among the homework, the quizzes (exit points) and tests we will do during each term.</p>	<p>Students will complete activities such as: Worksheets related to the topic and structured by levels of understanding Problem solving activities to deepen into their mathematical vocabulary as well as the application of Maths to different kinds of problems. At least one activity, text or problem related to real world skills. At least once a week starter related to previous topics to reinforce the memory.</p> <p>Teachers will use tasks to assess core module learning objectives and monitor progress. At the end of the unit students will complete an “Exit Point”, it means, a short assessment to help teachers evaluate student’s progress throughout the unit.</p> <p>The Final evaluation will be arithmetic mean among the homework, the quizzes (exit points) and tests we will do during each term.</p>	<p>Students will complete activities such as: Worksheets related to the topic and structured by levels of understanding Problem solving activities to deepen into their mathematical vocabulary as well as the application of Maths to different kinds of problems. At least one activity, text or problem related to real world skills. At least once a week starter related to previous topics to reinforce the memory.</p> <p>Teachers will use tasks to assess core module learning objectives and monitor progress. At the end of the unit students will complete an “Exit Point”, it means, a short assessment to help teachers evaluate student’s progress throughout the unit.</p> <p>The Final evaluation will be arithmetic mean among the homework, the quizzes (exit points) and tests we will do during each term.</p>	
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Books you may find useful:

	<p>A Level Mathematics for Edexcel: Core C1/C2 IGCSE</p> <ul style="list-style-type: none">• Language: English• ISBN-10: 9780199117796• ISBN-13: 978-0199117796
<p>Teacher's notes and printed copies. Exercises from A-level Maths (C1 and C2) past papers. AS Maths.</p>	