

**S3/S4 MATHEMATICS**  
TERM 1 (Aug 13<sup>th</sup> – Nov 14<sup>th</sup>, 2020 )

Weeks	Course Outline
Week 1 (August 13 -15)	Revision of numeracy skills : Surds, Rounding, reverse Percentages, Fractions, Appreciation and depreciation
Week 2 (Aug 17 -22)	Introduction to Algebraic skills : Expansion of brackets
Week 3  (Aug 24 - 29)	Factorising an algebraic expression
Week 4 (Aug 31 – Sep 5)	Completing the square in a quadratic expression
Week 5 (Sep 7 – Sep 12)	Simplifying algebraic fractions
Week 6 (Sep 14 – 19)	Applying the four operations to algebraic fractions
Week 7 (Sep 21 – 26)	Determining the equation of a straight line
Week 8 (Sep 28 – Oct 3)	Working with Linear equations and inequations
Week 9 (Oct 5 - 10 )	Working with Simultaneous equation
<b>Week 10 (Oct 12 – 17)</b>	<b>MID-TERM HOLIDAY</b>

Week 11 (Oct 19 – 24)	ASSESSMENT OF HALF TERM WORK Changing the subject of a formula
Week 12 (Oct 26 – 31)	Changing the subject of a formula
Week 13 (Nov 2 – 7)	Determine the equation of a quadratic function from its graph
Week 14 (Nov 9 - 14)	Sketching a quadratic Function
Nov 14 - 15	<b>END OF TERM 1</b>

### S3/S4 Mathematics

TERM 2 (Nov 16<sup>th</sup> 2020 – Feb 27<sup>th</sup> 2021 )

Week 1 (Nov 16 – 21)	Sketching a quadratic Function
Week 2 (Nov 23 – 28)	Identifying Features of a quadratic function
Week 3 (Nov 30 – Dec 5)	Solving a quadratic equation
Week 4 (Dec 7 – 12)	Solving a quadratic equation using the quadratic Formula
Week 5 (Dec 14 -19)	Solving a quadratic equation using the quadratic Formula
Week 6 (Dec 21 – 23)	Using Discriminant to determine the number of roots (END OF UNIT 2 : ALGEBRAIC SKILLS)
Week 6 - 7 (Dec 24 – Jan 5)	WINTER BREAK
Week 8 (Jan 6 – 9)	Revision of past questions on Unit 2 : ALGEBRAIC SKILLS
Week 9 (Jan 11 – 16)	INTRODUCTION TO UNIT 3: GEOMETRIC SKILLS Determine the gradient of a straight line
Week 10 (Jan 18 – 23)	Determine the Gradient of a straight line
Week 11 (Jan 25 – 30)	Circle Geometry
Week 12 (Feb 1 – 5)	Circle Geometry
<b>Feb (6 – 9)</b>	<b>MID-TERM HOLIDAY</b>

Week 13 (Feb 10 -13)	ASSESSMENT OF HALF TERM WORK Solutions to the assessment Revision of half term work
Week 14 (Feb 15 -20)	Calculating the volume of a standard solid
Week 15 (Feb 22 – 27)	Calculating the volume of a standard solid
	END OF TERM 2

### S3/S4 MATHEMATICS

#### TERM 3 (March 1<sup>st</sup> – June 26<sup>th</sup> 2021)

Week 1 (March 1- 6)	Revision of past questions on unit 1 and 2 Topics
Week 2 (March 8 - 13)	Applying Pythagoras' Theorem
Week 3 (March 15 - 20)	Applying the properties of shapes to determine an angle
Week 4 (March 22 - 27)	Using Similarity
Week 5 (March 29 – April 1st)	Working with two-dimensional vectors
Week 5 - 7 (April 2– 17)	APRIL HOLIDAY
Week 8 (April 19 - 24)	Working with three-dimensional coordinates
Week 9 (April 26 – May 1)	Using Vector components Calculating the magnitude of a vector
Week 10 (May 3 - 8)	MAY DAY, RAMADHAN/EID HOLIDAY
Week 11 (May 10 - 15)	RAMADHAN/EID HOLIDAY
Week 12 (May 17 – 22)	<b>INTRODUCTION TO UNIT 3: TRIGONOMETRIC SKILLS</b> Working with the graphs of trigonometric functions
Week 13 (May 24 -29)	Working with trigonometric relationships in degrees
May 28 <sup>th</sup> – May 31 <sup>st</sup> , 2021	MID-TERM HOLIDAY

Week 14 (May 31 – June 5)	Calculating the area of a triangle using trigonometry Using sine and cosine rules to find the side or angle in a triangle
Week 15 (June 7 – 12)	Using Bearings in trigonometry
Week 16 (June 14 – 19)	<b>INTRODUCTION TO UNIT 4 : STATISTICAL SKILLS</b> Comparing data sets using statistics
Week 17 (June 21 – 26)	Forming a linear model from a given set of data
	<b>END OF TERM 3</b>