

## HIGHER MATHEMATICS SCHEME OF WORK

TERM 1 (Aug 13<sup>th</sup> – Nov 14<sup>th</sup> 2020 )

Weeks	Course Outline
Week 1 (August 13 -15)	Revision of National 5 Mathematics topics ; Numerical, Algebra, Geometry, Trigonometry and Statistics.
Week 2 (Aug 17 -22)	Introduction to unit 1 : <b>ALGEBRAIC SKILLS</b> . Polynomials ; Addition, subtraction, multiplication and Division using synthetic method
Week 3 (Aug 24 - 29)	Factor and remainder theorems
Week 4 (Aug 31 – Sep 5)	Factorising and solving a quartic polynomial and using synthetic division
Week 5 (Sep 7 – Sep 12)	Factorise, solve or Find the roots of a polynomial equation
Week 6 (Sep 14 – 19)	Laws of Logarithms and exponents
Week 7 (Sep 21 – 26)	Solving Polynomial equations using discriminant
Week 8 (Sep 28 – Oct 3)	Solving Logarithmic and exponential equations
Week 9 (Oct 5 - 10 )	Sequences

Week 10 (Oct 12 – 17)	<b>MID-TERM HOLIDAY</b>
Week 11 (Oct 19 – 24)	ASSESSMENT OF HALF TERM WORK Solution to the assessment Revision of past questions on algebraic skills
Week 12 (Oct 26 – 31)	<b>INTRODUCTION TO TRIGONOMETRIC SKILLS:</b> Trigonometric expressions
Week 13 (Nov 2 – 7)	Trigonometric expressions
Week 14 (Nov 9 - 14)	Solving trigonometric equations
Nov 14 - 15	<b>END OF TERM 1</b>

## HIGHER MATHEMATICS

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

Week 1 (Nov 16 – 21)	Solving trigonometric equations
Week 2 (Nov 23 – 28)	Identifying and sketching related functions
Week 3 (Nov 30 – Dec 5)	Identifying and sketching related functions
Week 4 (Dec 7 – 12)	Determining Composite and inverse Functions
Week 5 (Dec 14 -19)	Revision of Past questions on Trigonometric skills
Week 6 (Dec 21 – 23)	<b>Introduction to Calculus skills :</b> Differentiation
Week 6 - 7 (Dec 24 – Jan 5)	<b>WINTER BREAK</b>
Week 8 (Jan 6 – 9)	Differentiation
Week 9 (Jan 11 – 16)	Differentiation
Week 10 (Jan 18 – 23)	Integration
Week 11 (Jan 25 – 30)	Integration
Week 12 (Feb 1 – 5)	Integration
<b>Feb (6 – 9)</b>	<b>MID-TERM HOLIDAY</b>

Week 13 (Feb 10 -13)	ASSESSMENT OF HALF TERM WORK Solution to the assessment Revision of half term work
Week 14 (Feb 15 -20)	Applying Integral Calculus
Week 15 (Feb 22 – 27)	Applying Integral Calculus
	<b>END OF TERM 2</b>

## HIGHER MATHEMATICS

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

Week 1 (March 1- 6)	Revision Of past questions on Calculus skills
Week 2 (March 8 - 13)	<b>INTRODUCTION TO GEOMETRIC SKILLS :</b> Geometric Vectors
Week 3 (March 15 - 20)	Geometric Vectors
Week 4 (March 22 - 27)	Working with Vectors
Week 5 (March 29 – April 1st)	Working with vectors
<b>Week 5 - 7</b> <b>(April 2– 17)</b>	<b>APRIL HOLIDAY</b>
Week 8 (April 19 - 24)	Assessment of Geometric Skills
Week 9 (April 26 – May 1)	<b>INTRODUCTION TO GEOMETRIC SKILLS</b> Rectilinear shapes
Week 10 (May 3 - 8)	MAY DAY, RAMADHAN/EID HOLIDAY

Week 11 (May 10 - 15)	<b>RAMADHAN/EID HOLIDAY</b>
Week 12 (May 17 – 22)	Rectilinear Shapes
Week 13  (May 24 -29)	Rectilinear Shapes
May 28 <sup>th</sup> – May 31 <sup>st</sup> , 2021	<b>MID-TERM HOLIDAY</b>
Week 14 (May 31 – June 5)	Circles and Graphs
Week 15  (June 7 – 12)	Circles and Graphs
Week 16  (June 14 – 19)	Circles and Graphs
Week 17  (June 21 – 26)	Revision
	<b>END OF TERM 3</b>