Jeddah Knowledge International School
Department
Summer work
Grade12
IB DP 2021-22

The summer work will be included in the Quarter1 formative assessment.

MAA HL

Study the following :
Chapter 1 Sequences, Series, and Proof
Chapter 2 Functions
Chapter 3 Complex Numbers and Polynomials
Chapter 6 Geometry and Trigonometry
Chapter 7 Vectors in 3 D space

- Solve the IXL skills below:

Grade 11 Math AA-HL.			
Calculus	B. Families of Functions	B.5	Transformation of function
		B.6	Describe function transformations
	D. Exponential and Logarithmic Functions	D.1	Domain and Range
		D.9	Describe linear and exponential growth and decay
Pre Calculus	D. Polynomials	D.7	Complex conjugate theorem
		D.8	Conjugate root theorems

- **Solve the following Past papers**:
May 19/TZ1/Paper 1: Questions 1,2,3,4
May 19/TZ2/Paper 1: Questions 1,3,5,7
May 19/TZ1/Paper 2: Questions 2,4,6,8
May 19/TZ2/Paper 2: Questions 1,4,5,8
- Continue working on your math IA draft to be submitted, upon your return, on the date as per the deadline set by the school.

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MAA SL

- **Study all lessons below in preparation for a cumulative quiz to be written upon return to school:**

Chapter 1.1, 1.2, 1.3, 1.4, 1.6: Sequence and Series
Chapter 2(All): Introducing Functions
Chapter 3(All): Linear and quadratic functions
Chapter 4(All): Rational Functions
Chapter 7(All): Linear Modeling
Chapter 9.1, 9.2: Exponential and Logarithms
Chapter 11(All)-12(All): Trigonometry

- Solve the IXL skills below:

Grade 11 Math AA-SL			
Calculus	B. Families of Functions	B.5	Transformation of function
		B.6	Describe function transformations
	D. Exponential and Logarithmic Functions	D.1	Domain and Range of exponential and logarithmic functions
		D.8	Evaluate logarithms using properties
Pre-Calculus	M. Trigonometry	M.1	Convert between radians and degrees
		M.7	Find trigonometric ratios of special angles

- **Solve the following Past papers:**
M19/Tz1/P1 questions 3, 4,8abde,10abc
M19/Tz2/p1 questions 3,4,5,6,7,9ab
M19/Tz1/p2 questions 2,5,7,8
M19/Tz2/p2   questions 1,2a,3,4,10

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MAI SL

- **Study the following:**

Chapter 1: Measuring space

Chapter 3: Representing and Describing Data

Chapter 5: Modeling constant rate of Change

Chapter 6: Modeling Relationships

Chapter 7: Quantifying Uncertainty

Chapter 8: Testing for Validity

Chapter 9: Modeling relationships with Functions

- **Solve the following past papers:**

Math studies: M16/Tz1/P1 questions 1,3,6,8,9,10 ,12,13

Math Studies: M16/Tz1/p2 questions 1,2,5

Math Studies: N16/p1 questions 1,2,3,4,6,8,9,10,12,13

Math Studies: N16/p2 questions 1,2,4.

- **IXL : do the following : Go to precalculus:**

	A. Functions	A1	Domain and Range
	C.Quadratic Functions	C2	Characteristic of a quadratic Function
	W. Sequences and Series	W11	Find the sum of arithmetic series
Pre- Calculus	X. probability	X5	Find probability using two way table
	Z .Statistics	Z9	Interpret regression line

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Math Algebra

- Solve the booklet
- Solve on IXL: Algebra 2

	A. Variable expressions	A3	Simplify variable expressions
	D. Functions	D1	Domain and range
		D3	Evaluate functions
Algebra 2	L. Radical functions and expressions	L13	Solve radical equations
	M. Rational Exponents	M6	Simplify expressions involving rational exponents II

Math Pre-Calculus

- Solve the booklet
- Solve IXL : Precalculus:

Precalulus	A. Functions	A1	Domain and Range
		A2	Identify functions
	F. Exponential and Logarithmic Functions	F9	Evaluate logarithmic using properties
		F10	Solve exponential equations
		F11	Solve logarithmic equations